LENGTH DATA

EXCEPTIONS
NONE

EQUATIONS
NONE

STATE OF MISSISSIPPI

OFFICE OF STATE AID ROAD CONSTRUCTION

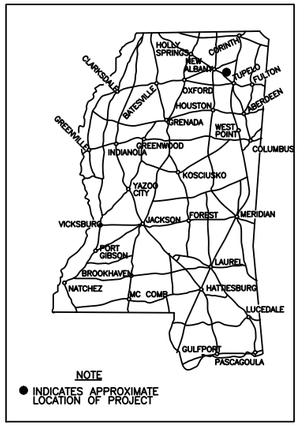
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED

COUNTY HIGHWAY
STATE AID PROJECT NO. SAP-84(1)

COUNTY ROAD NAME
MISSISSIPPI COUNTY

INDEX
FOR INDEX SEE SHEET NO. 2



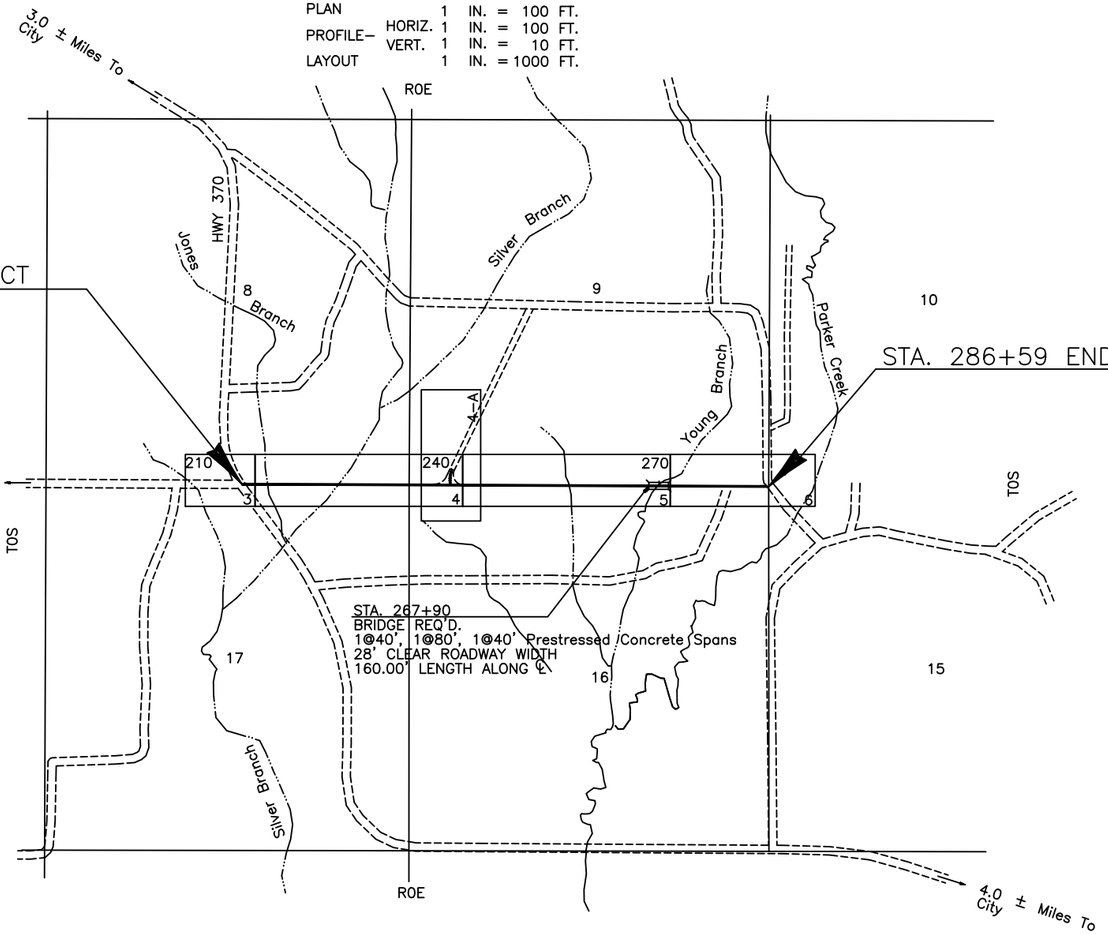
NOTE
● INDICATES APPROXIMATE LOCATION OF PROJECT

LENGTH OF ROADWAY	7666.00	FT	1.451 MI
LENGTH OF BRIDGES	160.00	FT	0.030 MI
LENGTH OF PROJECT (NET)			1.481 MI
LENGTH OF EXCEPTIONS	0.00	FT	0.000 MI
LENGTH OF PROJECT (GROSS)			1.481 MI

BRIDGE NUMBER SA84-103
BRIDGE NUMBER SA84-104

SCALES

PLAN		1 IN. = 100 FT.	
PROFILE–	HORIZ.	1 IN. = 100 FT.	
	VERT.	1 IN. = 10 FT.	
LAYOUT		1 IN. = 1000 FT.	



NOTE TO DESIGNER:

SAMPLE PLAN DATA
Type of Project: Grade, Drain, Base, and Surfacing
Date: October 2011

Notes To Designer are in italics throughout these sample plans and should not be included in project plans.

MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION CURRENTLY APPROVED BY THE OFFICE OF STATE AID ROAD CONSTRUCTION OF THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION AND THE FEDERAL HIGHWAY ADMINISTRATION ARE MADE A PART HEREOF FULLY AND COMPLETELY AS IF ATTACHED HERETO, EXCEPT WHERE SUPERSEDED BY THE SPECIAL PROVISIONS, OR AMENDED BY REVISIONS

JOHN DOE REGISTERED ENGINEER STATE OF MISSISSIPPI

PREPARED BY _____ _____
COUNTY ENGINEER DATE

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
APPROVED

_____ _____
STATE AID ENGINEER DATE

SUMMARY OF QUANTITIES

PAY ITEM NO.	PAY ITEM	TOTAL QUANTITY		UNIT
	ROADWAY ITEMS	PLAN	FINAL	
S-200-A	Mobilization	Lump Sum		Lump Sum
S-201-A	Clearing And Grubbing	Lump Sum		Lump Sum
S-202-B	Removal Of Bridge (Sta. 222+84)	1.0		Unit
S-202-B	Removal Of Bridge (Sta. 268+28)	1.0		Unit
S-203-A	Unclassified Excavation (FM)	23,095		Cu. Yd.
	BASE AND SUSRFACING ITEMS			
	ALTERNATE NO. 1			
S-304-A	Granular Material (LVM) (Class 4, Group B)	377		Cu. Yd.
S-304-A	Granular Material (LVM) (Class 9, Group B)	14,596		Cu. Yd.
S-308-A-1	Portland Cement	7,096		CWT
S-308-B-1	Soil-Cement-Water Mixing (Multiple Pass Mixers)	21,971		Sq. Yd.
S-410-C-1	Polymeriized-Emulsified Asphalt, Grade CRS-2P	17,171		Gal.
S-410-D	Coarse Aggregate Cover Material, Size 56, Type Crushed Stone	368		Cu. Yd.
S-410-E	Seal Aggregate Cover Material, Size 7, Type Crushed Stone	198		Cu. Yd.
S-410-F	Blotter Material	28		Cu. Yd.
	ALTERNATE NO. 2			
S-304-A	Granular Material (LVM) (Class 4, Group B)	20,144		Cu. Yd.
S-310-D	Mixing, Shaping, and Compaction	21,971		Sq. Yd.
S-408-A	Asphalt For Prime Coat (AE-P)	7,340		Gal.
S-410-C-1	Polymeriized-Emulsified Asphalt, Grade CRS-2P	17,171		Gal.
S-410-D	Coarse Aggregate Cover Material, Size 5, Type Crushed Stone	368		Cu. Yd.
S-410-E	Seal Aggregate Cover Material, Size 7, Type Crushed Stone	198		Cu. Yd.
S-410-F	Blotter Material	28		Cu. Yd.
	ROADWAY ITEMS (continued)			
S-601-A	Class B Structural Concrete	183.80		Cu. Yd.
S-601-B	Class B Structural Concrete, Minor Structures	2.41		Cu. Yd.
S-602-A	Reinforcing Steel	26,015		Lb.
S-603-C-A	15" Reinforced Concrete Pipe, Class III	224		Lin. Ft.
S-603-C-A	18" Reinforced Concrete Pipe, Class III	200		Lin. Ft.
S-603-C-A	24" Reinforced Concrete Pipe, Class III	272		Lin. Ft.
S-603-C-A	48" Reinforced Concrete Pipe, Class III	48		Lin. Ft.
S-603-C-B	18" Reinforced Concrete Pipe, End Section	3		Each
S-603-C-B	24" Reinforced Concrete Pipe, End Section	4		Each
S-603-C-B	48" Reinforced Concrete Pipe, End Section	2		Each
S-603-C-D	73" x 45" Reinforced Concrete Arch Pipe, Class III	56		Lin. Ft.
S-603-C-D	88" x 54" Reinforced Concrete Arch Pipe, Class III	56		Lin. Ft.
S-603-C-E	73" x 45" Reinforced Concrete Arch Pipe, End Section	2		Each
S-603-C-E	88" x 54" Reinforced Concrete Arch Pipe, End Section	2		Each
S-606-B	Guardrail, W-Beam	50.0		Lin. Ft.
S-606-D	Guardrail, Bridge End Section, Type "I" Thrie-Beam	4		Each
S-606-E	Guardrail, Terminal End Section	4		Each
S-617-A	Right-Of-Way Markers (I)	49		Each
S-618-A	Maintenance Of Traffic	Lump Sum		Lump Sum
S-618-B	Additional Construction Signs	0.0		Sq. Ft.
S-619-B	4" Wide Traffic Stripe (Skip Yellow)	1.328		Mi.
S-619-C	4" Wide Traffic Stripe (Continuous White)	16,677		Lin. Ft.
S-619-D	4" Wide Traffic Stripe (Continuous Yellow)	4,913		Lin. Ft.
S-619-F	Detail Traffic Stripe	228.0		Lin. Ft.
S-630-A	Reflectorized Traffic Warning Sign (Encapsulated Lens)	11		Each
S-630-B	Reflectorized Traffic Regulatory Sign (Encapsulated Lens)	4		Each
S-630-C	Reflectorized Traffic Object Marker (Encapsulated Lens) (Type 3)	4		Each
S-815-A	Loose Riprap, 200 lb.	50		Ton

SUMMARY OF QUANTITIES

PAY ITEM NO.	PAY ITEM	TOTAL QUANTITY		UNIT
	EROSION CONTROL ITEMS	PLAN	FINAL	
901-S-212-A	Agricultural Limestone	20		Ton
S-212-B	Commercial Fertilizer (13-13-13)	10		Ton
S-212-F	Ammonium Nitrate	1		Ton
S-214-A	Seeding	10		Acre
S-215-A	Vegetative Materials For Mulch	20		Ton
(1) S-226-A	Solid Sodding	372		Sq. Yd.
S-229-A	Portland Cement Concrete Paved Ditch	16.20		Cu. Yd.
S-233-A	Temporary Silt Fence	6080		Lin. Ft.
	BRIDGE ITEMS			
S-803-A	Test Pile	2		Each
S-803-B	Conventional Static Pile Load Test	0		Each
S-803-E	12" Steel Piling	1,710		Lin. Ft.
901-S-804-A	Bridge Concrete, Class "A"	196.89		Cu. Yd.
901-S-804-C	40' Prestressed Concrete Beam, Type I+2	198.75		Lin. Ft.
901-S-804-C	80' Prestressed Concrete Beam, Type III	398.75		Lin. Ft.
S-805-A	Reinforcement	32,749		Lb.
S-813-A	Concrete Railing	320		Lin. Ft.
S-815-A	Loose Riprap, 300 lb.	79		Ton
S-815-E	Geotextile Under Riprap, Type V, AOS 0.21-0.43	170		Sq. Yd.

(1) Includes 100 S.Y. Estimated To Be Used As Directed For Erosion Control

Cementitious Material Exposure to Sulfates Is Negligible.

Note: If sulfates are present on the project, add a "bubble" note, (S), (W), (N), to each concrete pay item showing required cementitious material per 901-S-701.01.

SEAL

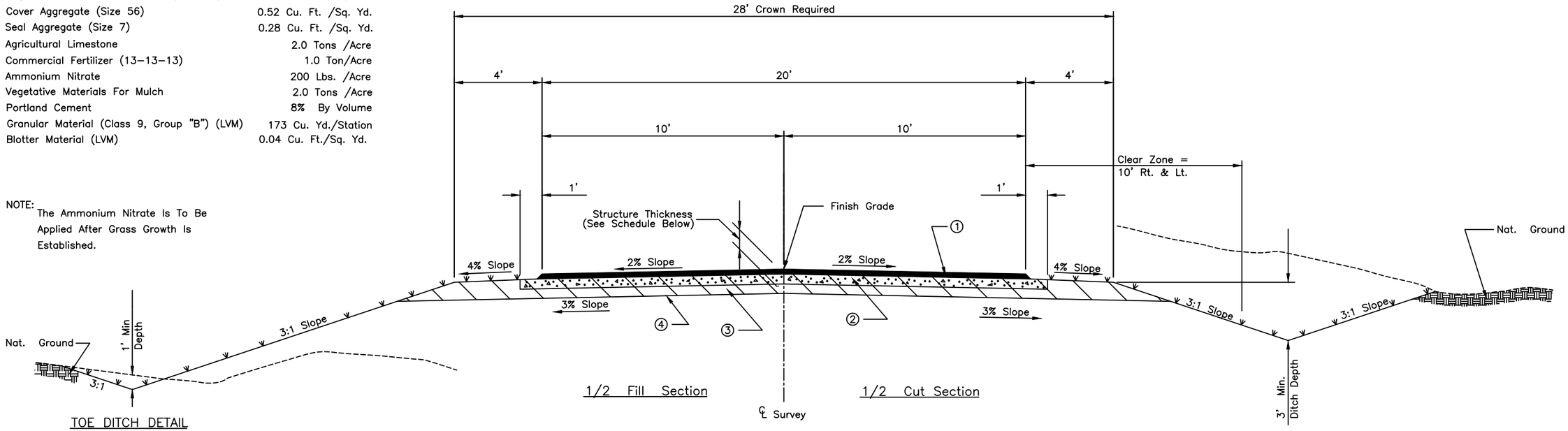
PREPARED BY _____ _____
COUNTY ENGINEER DATE

INDEX

RATES OF APPLICATION USED FOR ESTIMATING QUANTITIES

ITEM	RATE
Polymerized–Emulsified Asphalt (CRS–2P)	0.90 Gal. /Sq. Yd.
Cover Aggregate (Size 56)	0.52 Cu. Ft. /Sq. Yd.
Seal Aggregate (Size 7)	0.28 Cu. Ft. /Sq. Yd.
Agricultural Limestone	2.0 Tons /Acre
Commercial Fertilizer (13–13–13)	1.0 Ton/Acre
Ammonium Nitrate	200 Lbs. /Acre
Vegetative Materials For Mulch	2.0 Tons /Acre
Portland Cement	8% By Volume
Granular Material (Class 9, Group "B") (LVM)	173 Cu. Yd./Station
Blotter Material (LVM)	0.04 Cu. Ft./Sq. Yd.

NOTE: The Ammonium Nitrate Is To Be Applied After Grass Growth Is Established.



TOE DITCH DETAIL

Req'd. Where Natural Ground Slopes Toward Embankment

FLEXIBLE PAVEMENT DESIGN

DATA FOR PAVEMENT DETERMINATION

(2007) ADT = 110 Current
(2012) ADT = 117 n Year
(2027) ADT = 143 Design
DHV = 21
D = 50 % of DHV
T = 10 % of DHV
T (Total) = 10 % of ADT
18k (Flex) = 675/1000
18k (Rigid) = 0/1000
CBR = 11

REQUIRED STRUCTURE NUMBER

2027		2012	
ADL	4	ADL	4
CBR	11	CBR	11
SSV	4.85	SSV	4.85
PT	2.5	PT	2.5
SN	1.916	SN	1.472

TYPICAL GRADE, DRAIN, BASE & SURFACING SECTION

ALTERNATE No. 1, CEMENT TREATED GRANULAR BASE
Sta. 208+33 To Sta. 286+59, Mainline
Sta. 10+00.00 To Sta. 15+32.75, Relocated County Road
N.T.S.

① 20' Wide Double Bituminous Surface Treatment Required

② Soil–Cement–Water Mixing Req'd. (22' Wide) Portland Cement Shall Be Incorporated Into The Top 6" Of Granular Material (Class 9, Group B). Cement Percentage (8% By Volume Estimated), Proper Moisture Content And Approximate Density To Be Determined By A State Aid Approved Laboratory From Soil Analysis Taken From Granular Material Placed On Roadway.

③ Granular Material (Class 9, Group B) Required

④ Subgrade

SCHEDULE OF STRUCTURE THICKNESS

STATION TO STATION	ESTIMATED SUBGRADE CBR	SOIL SUPPORT VALUE	AVERAGE DAILY LANE LOADING	STRUCTURE NUMBER REQUIRED	SUBBASE THICKNESS		BASE COURSE THICKNESS		SURFACE COURSE THICKNESS		TOTAL PROVIDED	
					in	SN	in	SN	in	SN	in	SN
208+33 – 286+59 &	11	4.85	4	1.47	6.0	0.54	6.0	1.02	0	0	12.0	1.56
10+00 – 15+32.75												
(Relocated County Road)												

NOTE: SUBGRADE CBR IS ESTIMATED ONLY. A SUBGRADE SOIL PROFILE WILL BE PREPARED AND THE CBR AND THE REQUIRED BASE STRUCTURE THICKNESS DETERMINED AFTER GRADING AND BEFORE PLACING BASE MATERIAL.

GENERAL NOTES

Erosion and sediment control measures are to be applied on disturbed areas indicated (~~vvv~~) or as required by the Storm Water Pollution Prevention Plan.

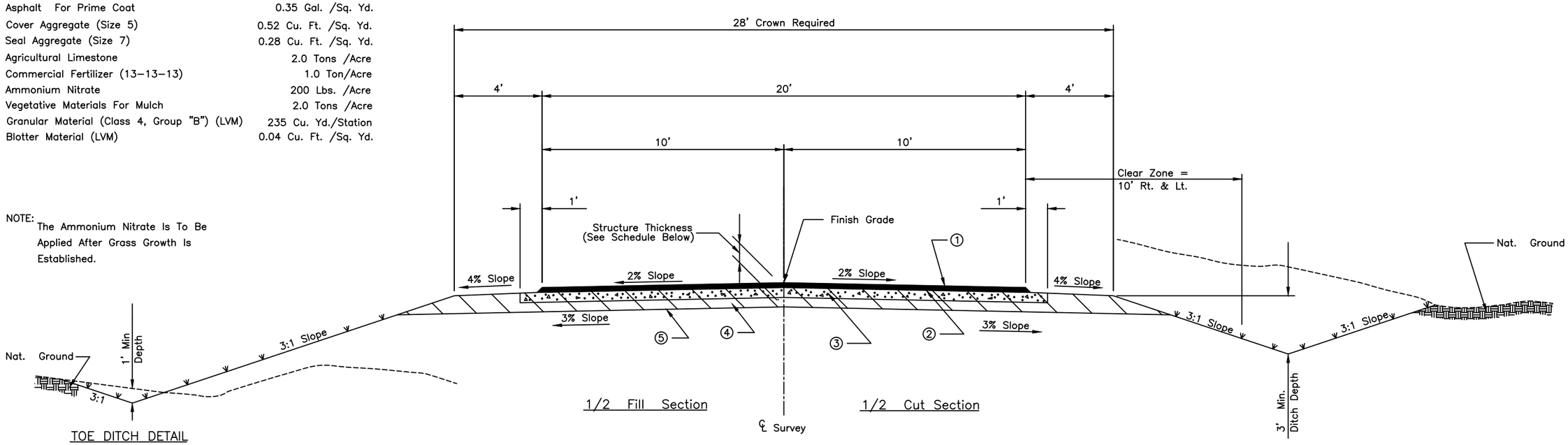
Clearing and grubbing of construction easements shall be considered as normal right–of–way and paid for by lump sum.

Before final acceptance, the entire right–of–way shall be mowed by the contractor at no cost to the project.

RATES OF APPLICATION USED FOR ESTIMATING QUANTITIES

ITEM	RATE
Polymerized–Emulsified Asphalt (CRS–2P)	0.90 Gal. /Sq. Yd.
Asphalt For Prime Coat	0.35 Gal. /Sq. Yd.
Cover Aggregate (Size 5)	0.52 Cu. Ft. /Sq. Yd.
Seal Aggregate (Size 7)	0.28 Cu. Ft. /Sq. Yd.
Agricultural Limestone	2.0 Tons /Acre
Commercial Fertilizer (13–13–13)	1.0 Ton/Acre
Ammonium Nitrate	200 Lbs. /Acre
Vegetative Materials For Mulch	2.0 Tons /Acre
Granular Material (Class 4, Group "B") (LVM)	235 Cu. Yd./Station
Blotter Material (LVM)	0.04 Cu. Ft. /Sq. Yd.

NOTE: The Ammonium Nitrate Is To Be Applied After Grass Growth Is Established.



TOE DITCH DETAIL

Req'd. Where Natural Ground Slopes Toward Embankment

TYPICAL GRADE, DRAIN, BASE & SURFACING SECTION

ALTERNATE No. 2, MIXED, SHAPED, AND COMPACTED GRANULAR BASE
Sta. 208+33 To Sta. 286+59, Mainline
Sta. 10+00.00 To Sta. 15+32.75, Relocated County Road
N.T.S.

① 20' Wide Double Bituminous Surface Treatment Required
② Prime Coat Required (22' Wide)
③ Mixing, Shaping, & Compaction Req'd. (22' Wide) 6 in. Deep.
④ Granular Material (Class 4, Group B) Required
⑤ Subgrade

FLEXIBLE PAVEMENT DESIGN

DATA FOR PAVEMENT DETERMINATION

(2007) ADT = 110 Current
(2012) ADT = 117 n Year
(2027) ADT = 143 Design
DHV = 21
D = 50 % of DHV
T = 10 % of DHV
T (Total) = 10 % of ADT
18k (Flex) = 675/1000
18k (Rigid) = 0/1000
CBR = 11

REQUIRED STRUCTURE NUMBER

2027		2012	
ADL	4	ADL	4
CBR	11	CBR	11
SSV	4.85	SSV	4.85
PT	2.5	PT	2.5
SN	1.916	SN	1.472

SCHEDULE OF STRUCTURE THICKNESS

STATION TO STATION	ESTIMATED SUBGRADE CBR	SOIL SUPPORT VALUE	AVERAGE DAILY LANE LOADING	STRUCTURE NUMBER REQUIRED	SUBBASE THICKNESS		BASE COURSE THICKNESS		SURFACE COURSE THICKNESS		TOTAL PROVIDED	
					in	SN	in	SN	in	SN	in	SN
208+33 – 286+59 &	11	4.85	4	1.47	9.0	0.99	6.0	0.60	0	0	15.0	1.59
10+00 – 15+32.75												
(Relocated County Road)												

NOTE: SUBGRADE CBR IS ESTIMATED ONLY. A SUBGRADE SOIL PROFILE WILL BE PREPARED AND THE CBR AND THE REQUIRED BASE STRUCTURE THICKNESS DETERMINED AFTER GRADING AND BEFORE PLACING BASE MATERIAL.

GENERAL NOTES

Erosion and sediment control measures are to be applied on disturbed areas indicated (WW) or as required by the Storm Water Pollution Prevention Plan.

Clearing and grubbing of construction easements shall be considered as normal right–of–way and paid for by lump sum.

Before final acceptance, the entire right–of–way shall be mowed by the contractor at no cost to the project.

BOX CULVERT SCHEDULE

Sheet No.	Station	Size	State Standards	Length	Class "B" Conc.	Reinf.	"T"	"V"	"Z"	Remarks
4	223+09	16' X 8'	366.1, 371.1, 371.2, 374	65	183.80	25,936	13	11	22	30° Lt. Fwd.
			375.1, 375.2, 400.1, 400.2							
Total					183.80	25,936				
Units				Ft	Cu Yd	Lb	In	In	Ft	

CONC. PAVED DITCH SCHEDULE

Sheet No.	Station – Station	Side	Width	Length	Toe Wall	Total
5	257+00 – 357+00	LT.	6.0	100.0	0.30	8.11
5	257+00 – 357+00	RT.	6.0	100.0	0.30	8.11
	TOTALS					16.22
	UNITS		feet	feet	cubic yards	cubic yards

CULVERT HYDRAULIC DESIGN SUMMARY

SH. NO.	STATION	D. A. Acres	CULVERT SIZE	UPSTREAM FLOWLINE ELEVATION (feet)	DESIGN STORM (Q25) (25–YEAR STORM)				BASE STORM (Q100) (100–YEAR STORM)				STORM OF RECORD			REMARKS
					DISCHARGE cfs	* HEADWATER CONTROL IN/OUT HW/D	HW (DEPTH)	HW (ELEV.)	DISCHARGE cfs	* HEADWATER CONTROL IN/OUT HW/D	HW (DEPTH)	HW (ELEV.)	DATE OCCURRED	DISCHARGE cfs	HIGH WATER ELEVATION	
3	208+62	6	24"	335.05	20	1.55	3.10	338.15	26	1.90	3.80	338.85	Not Available			C= 0.37 I = 9.0 in./hr.
4	212+50	300	88" X 54"	326.00	298	1.43	6.44	332.44	381	2.00	9.00	335.00	1972	450	338.00	S= 6.29 Ft/Mi L= 1.89 Mi
4	223+09	1625	16' X 8'	326.00	1020	0.95	7.60	333.60	1313	1.30	10.40	336.40	1927	1313	336.40	S= 4.27 Ft/Mi L= 3.16 Mi
4–A	238+00	7	24"	341.20	24	1.60	3.20	344.40	29	2.10	4.20	345.40	Not Available			C= 0.37 I = 9.0 in./hr.
5	256+97	125	73" X 45"	333.70	175	1.49	5.59	339.29	220	2.25	8.44	342.14	1962	275	345.25	S= 4.40 Ft/Mi L= 0.85 Mi
6	281+29	64	48"	330.00	125	1.65	6.60	336.60	155	1.85	7.40	337.40	Not Available			S= 5.00 Ft/Mi L= 0.43 Mi

* Headwater Elevation Values Shown Are Theoretical And May Vary From Actual Conditions.

PIPE SCHEDULE

STATION	CONC. PIPE, CLASS III				CONC. F.E.S. REQ'D.			CONC. ARCH PIPE, CLASS III		CONC. ARCH PIPE F.E.S REQ'D.		CLASS "B" CONC., MINOR STRUCT.	REMARKS
	15"	18"	24"	48"	18"	24"	48"	73" X 45"	88" X 54"	73" X 45"	88" X 54"		
208+62		32			1.0							0.063	EXTEND EXIST. R.C.P. RT., TOE WALL REQ'D.
211+30	32												SIDEDRAIN RT.
212+50									56		2.0	0.207	CROSS DRAIN, TOE WALL REQ'D.
214+50	32												SIDEDRAIN RT.
220+80			32										SIDEDRAIN RT.
221+60	32												SIDEDRAIN LT.
222+75			56			1.0						0.493	TIE INTO WING LT, PIPE COLLAR, BRANCH CONN., AND
													TOE WALL REQ'D.
223+07			8										TIE INTO JB – 1 RT., BRANCH CONNECTION REQ'D.
223+43			56			1.0						0.083	TIE INTO JB – 1 RT., TOE WALL REQ'D.
224+40			32										SIDEDRAIN LT.
228+88			32										SIDEDRAIN RT.
232+90		32											SIDEDRAIN RT.
233+35		32											SIDEDRAIN RT.
238+00			56			2.0						0.083	CROSS DRAIN, TOE WALL REQ'D.
244+70	32												SIDEDRAIN LT.
250+65		32											SIDEDRAIN LT.
256+97								56		2.0		0.167	CROSS DRAIN, TOE WALL REQ'D.
260+10	32												SIDEDRAIN RT.
272+40		32											SIDEDRAIN RT.
273+23		40			2.0							0.063	SIDEDRAIN RT.
279+08	32												SIDEDRAIN RT.
281+29				48			2.0					0.145	CROSS DRAIN, TOE WALL REQ'D.
284+85	32												SIDEDRAIN RT.
TOTALS	224.0	200.0	272.0	48.0	3.0	4.0	2.0	56.0	56.0	2.0	2.0	1.304	
UNITS	feet	feet	feet	feet	each	each	each	feet	feet	each	each	cubic yards	

PORTLAND CEMENT EXPOSURE TO SOLUBLE SULFATES IS NEGLIGIBLE.

MODIFY THIS NOTE AS REQUIRED BY CONDITIONS FOR SEAWATER, MODERATE, OR SEVERE SULFATES PER 901-S-701.01.

IF YOU DO NOT DESIRE TOE WALLS AS PER STD. NO. 328 AND 329, DELETE THE COLUMN FOR CONC., MINOR STRUCTURES AND ADD A NOTE UNDER THE PIPE SCHEDULE STATING THAT TOE WALLS ARE NOT REQUIRED.

SCHEDULE SHEET

RAMP SCHEDULE

Sheet No.	Station	Side	Width (feet)	Paved Apron Area	Alt. No. 1 Gran. Mat'l. (Cl.4, Gp.B)	Alt. No. 2 Gran. Mat'l. (Cl.4, Gp.B)
3	209+15	LT.	50.00	25.30	54	63
4	211+30	RT.	20.0	11.97	17	20
4	214+50	RT.	20.0	11.97	17	20
4	220+80	RT.	20.0	11.97	17	20
4	221+60	LT.	20.0	11.97	17	20
4	223+43	RT.	20.0	11.97	17	20
4	224+40	LT.	20.0	11.97	17	20
4	228+88	RT.	20.0	11.97	17	20
4	232+90	RT.	20.0	11.97	17	20
4	233+35	RT.	20.0	11.97	17	20
5	244+70	LT.	20.0	11.97	17	20
5	250+65	LT.	20.0	11.97	17	20
5	260+10	RT.	20.0	11.97	17	20
5	261+60	LT.	20.0	11.97	17	20
6	272+40	RT.	20.0	11.97	17	20
6	276+50	LT.	20.0	11.97	17	20
6	277+80	RT.	20.0	11.97	17	20
6	279+08	RT.	20.0	11.97	17	20
6	284+85	RT.	20.0	11.97	17	20
6	286+13	RT.	20.0	11.97	17	20
TOTALS				252.73	377	443
UNITS				square yards	cubic yards	cubic yards

SOLID SOD SCHEDULE

Sheet No.	Station – Station	Side	Width	Length	Area
4	211+90 – 212+40	LT.	6.0	50.00	33.33
4	211+90 – 212+40	RT.	6.0	50.00	33.33
4	212+60 – 213+10	LT.	6.0	50.00	33.33
4	212+60 – 213+10	RT.	6.0	50.00	33.33
5	257+00 – 357+00	LT.	2.0	100.00	44.44
5	257+00 – 357+00	RT.	2.0	100.00	44.44
6	270+00 – 270+74	RT.	6.0	74.00	49.36
TOTALS					271.56
UNITS			feet	feet	square yards

TEMPORARY SILT FENCE SCHEDULE

Sheet No.	Station – Station	Side	Length
4	210+00 – 215+00	RT. & LT.	1000
4	221+00 – 229+00	RT. & LT.	1600
5	254+00 – 258+00	RT. & LT.	800
5	267+00 – 268+40	RT. & LT.	280
5–6	269+00 – 274+00	RT. & LT.	1000
6	279+00 – 286+00	RT. & LT.	1400
TOTALS			6080
UNITS			feet

ESTIMATED GRANULAR MATERIAL REQ'D.

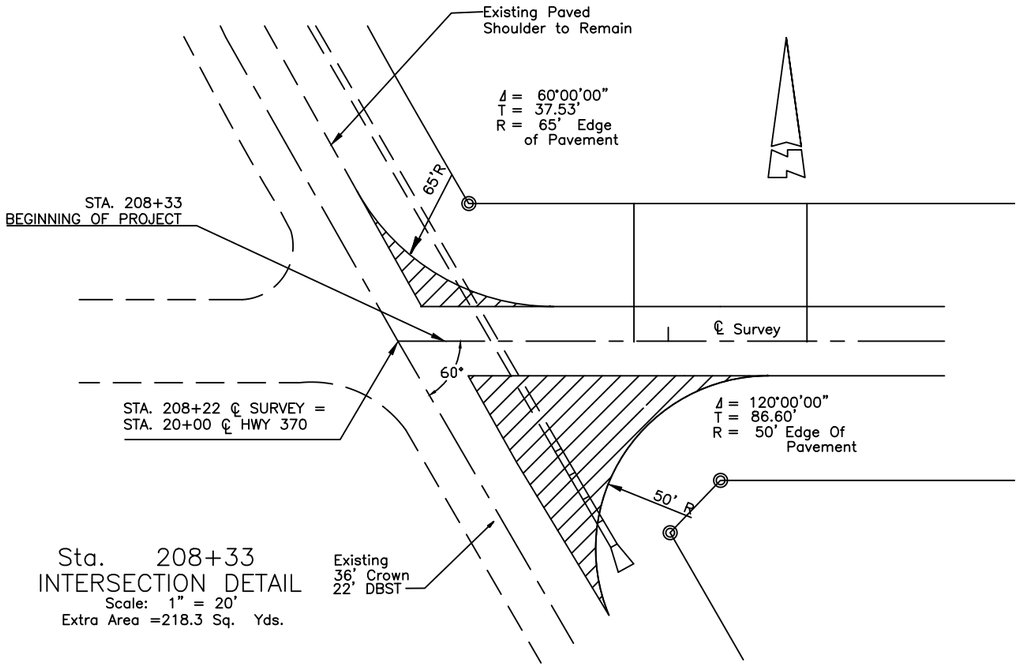
Area	Alternate No. 1 Granular Material (Cl. 9, Gp. B) (LVM)	Alternate No. 2 Granular Material (Cl. 4, Gp. B) (LVM)
Roadway	13,262.2	18,015.10
Intersections and Turnouts	261.3	326.6
Ramps	See Ramp Schedule	443
Bridge Approaches	306.6	383.46
Extra Area In Curves	61.4	76.84
Relocated County Road	704.1	899.46
Project Total	14,595.6	20,144.46
Units	cubic yards	cubic yards

JUNCTION BOX SCHEDULE

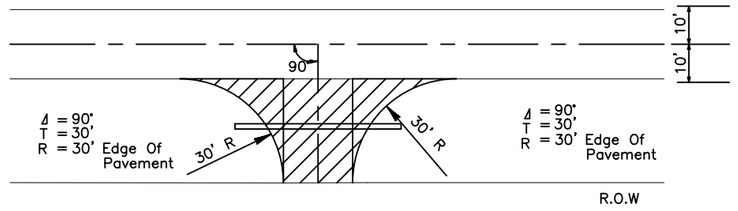
Sheet No.	Station	J.B. No.	Side 1 SZ./SK.	Side 2 SZ./SK.	Side 3 SZ./SK.	Side 4 SZ./SK.	Side W1–3	Side W2–4	Inlet Height	Cl. "B" Conc.	Rein. Steel	Bar List A1	A2	A3	A4	B	C	D	E	F
4	223+12	JB–1	24/0	0/0	24/45	0/0	5.29	2.50	3.50	1.10	78.83	2@37	0	2@37	0	2@57	2@24	4@36	16@26	8@59
		TOTAL								1.10	78.83									
		UNITS	in	in	in	in	feet	feet	feet	cubic yards	lb	inches	inches	inches	inches	inches	inches	inches	inches	inches

BASE AND SURFACING SCHEDULE

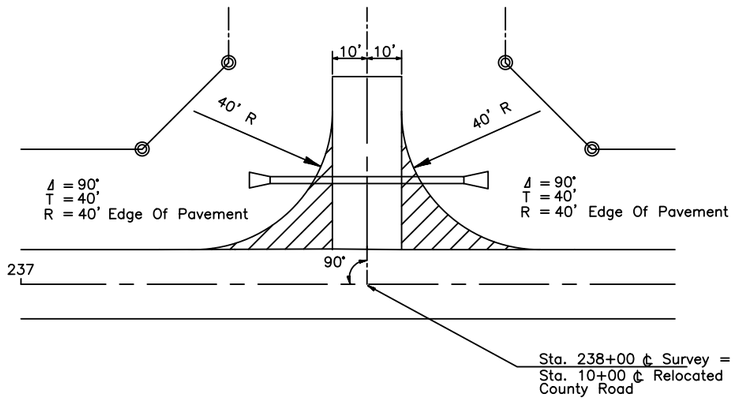
Area	BASE Alternate No. 1 Soil–Cement Water Mixing	BASE Alternate No. 1 Portland Cement	BASE Alternate No. 2 Mixing–Shaping Compaction	BASE Alternate No. 2 Prime Coat	SURFACING Surfacing Area	SURFACING Alternate No. 1 Asphalt Cement (CRS–2P)	SURFACING Alternate No. 1 Cover Aggregate Size 56	SURFACING Alternate No. 1 Cover Aggregate Size 7	SURFACING Alternate No. 2 Asphalt Cement (CRS – 2P)	SURFACING Alternate No. 2 Cover Aggregate Size 5	SURFACING Alternate No. 2 Cover Aggregate Size 7	SURFACING Blotter Material
Roadway	18,739.11	6341.32	18,739.11	6,558.69	17,035.56	15,332.0	328.09	176.66	15,332.0	328.09	176.66	25.24
Intersections and Turnouts	522.60	176.85	522.60	182.93	522.60	417.2	9.75	5.25	417.2	9.75	525	0.75
Ramps (20)	252.73	85.52	252.73	88.46	252.73	227.5	4.87	2.62	227.5	4.87	2.62	0.37
Bridge Approaches	31.00	10.48	31.00	10.85	31.00	27.9	0.60	0.32	27.9	0.60	0.32	0.04
Extra Area In Curves	122.93	41.59	122.93	43.03	122.93	110.6	2.37	1.28	110.6	2.37	1.28	0.18
Relocated County Road	1,302.28	440.69	1,302.28	455.80	1183.89	1065.5	22.80	12.28	1065.5	22.80	12.28	1.75
Project Total	21,970.65	7,096.45	21,970.65	7,339.76	19,148.71	17,170.70	368.48	198.41	17,170.7	368.48	198.41	28.33
Units	square yards	cwt	square yards	gallons	square yards	gallons	cubic yards	cubic yards	gallons	cubic yards	cubic yards	cubic yards



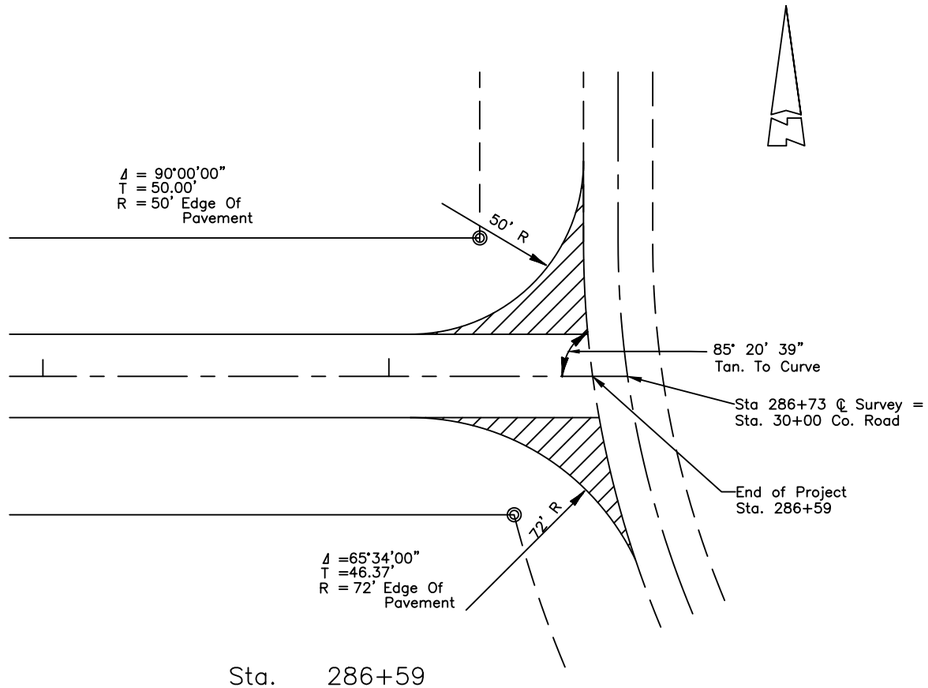
Sta. 208+33
INTERSECTION DETAIL
Scale: 1" = 20'
Extra Area =218.3 Sq. Yds.



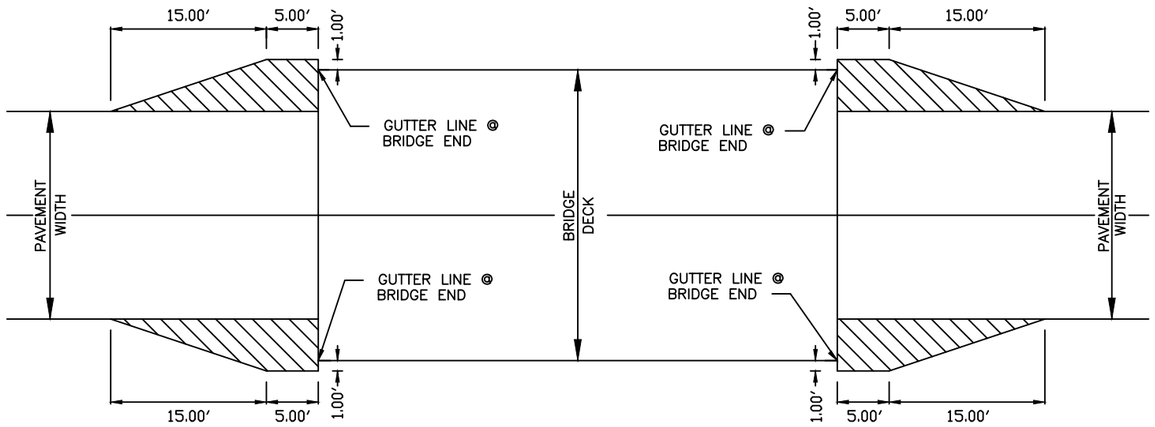
Sta. 273+23 Rt.
TURNOUT DETAIL
Scale: 1" = 20'
Extra Area = 109.6 Sq. Yds.



Sta. 238+00 Lt.
TURNOUT DETAIL
FOR RELOCATED CO. ROAD
Scale: 1" = 20'
Extra Area = 76.3 Sq. Yds.

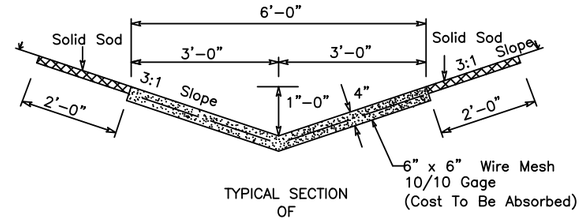


Sta. 286+59
INTERSECTION DETAIL
Scale: 1" = 20'
Extra Area = 118.4 Sq. Yds.



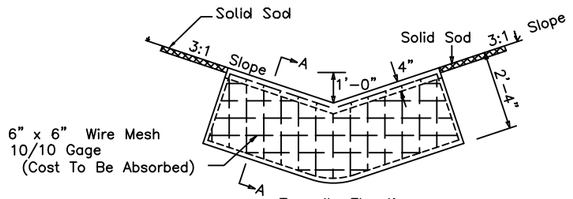
PAVING TREATMENT AT BRIDGE ENDS

Extra Area 31 sq. yd.

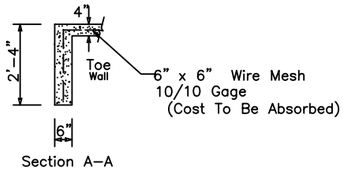


TYPICAL SECTION
OF
CONC. PAVED "V" DITCH

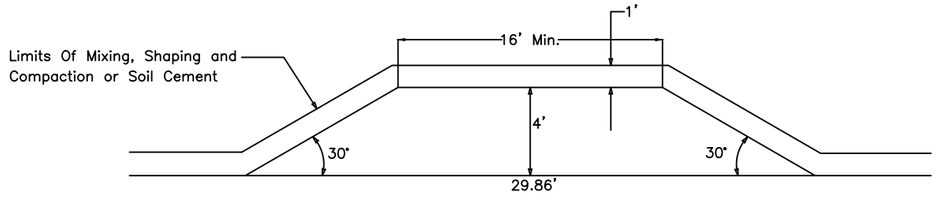
0.0781 CU. YD. CONC. PER LIN. FT.
0.444 SQ. YD. SOLID SOD PER LIN. FT.



Toewall Elevation
0.30 Cu. Yd. Per Toe Wall
Req'd. U.S. & D.S. Of Paved Ditch

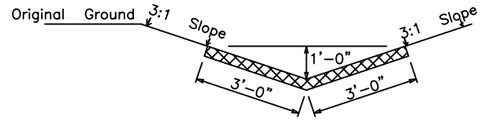


Section A–A



TYPICAL PAVED APRON DETAIL

10.2 SQ. YD. EXTRA AREA PER 16' RAMP
11.97 SQ. YD. EXTRA AREA PER 20' RAMP



SOLID SOD DITCH DETAIL

0.667 SQ. YD. SOLID SOD PER LIN. FT.

TRAFFIC SIGNS REQ'D

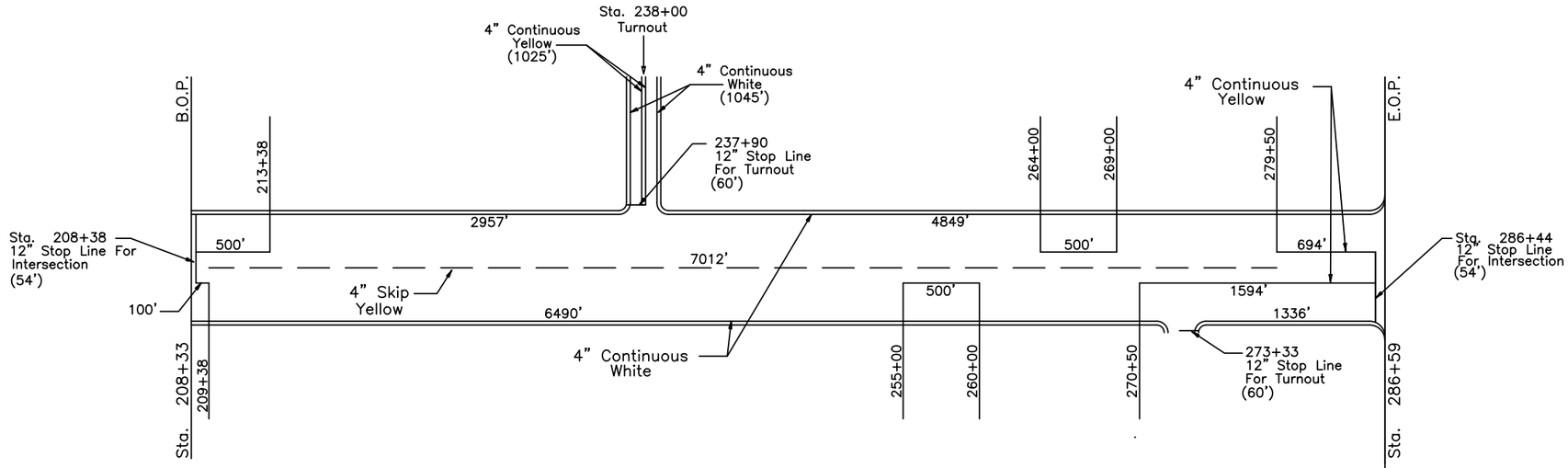
Station	Type	Remarks	Side
208+53	R1-1	Stop Sign	Lt.
213+28	W3-1	Stop Ahead Sign	Lt.
235+00	W2-2	Side Road Lt.	Rt.
237+80	R1-1	Stop Sign	Lt.
15+00	W3-1	Stop Ahead Sign (Relocated Co. Road)	Lt.
238+00	W1-7	Large Arrow (two directions)	Rt.
241+00	W2-2	Side Road Rt.	Lt.
267+89	OM-3L	Object Marker	Lt.
267+89	OM-3R	Object Marker	Rt.
269+51	OM-3R	Object Marker	Lt.
269+51	OM-3L	Object Marker	Rt.
270+90	W2-2	Side Road Rt.	Rt.
273+23	W1-7	Large Arrow (two directions)	Lt.
273+33	W3-1	Stop Ahead Sign	Rt. 450'
273+33	R1-1	Stop Sign	Rt.
276+25	W2-2	Side Road Lt.	Lt.
281+96	W3-1	Stop Ahead Sign	Rt.
286+46	R1-1	Stop Sign	Rt.
286+85	W1-7	Large Arrow (two directions)	CL

Total Signs

11 Warning Signs Req'd.

4 Regulatory Signs Req'd.

4 Hazard Signs Req'd.



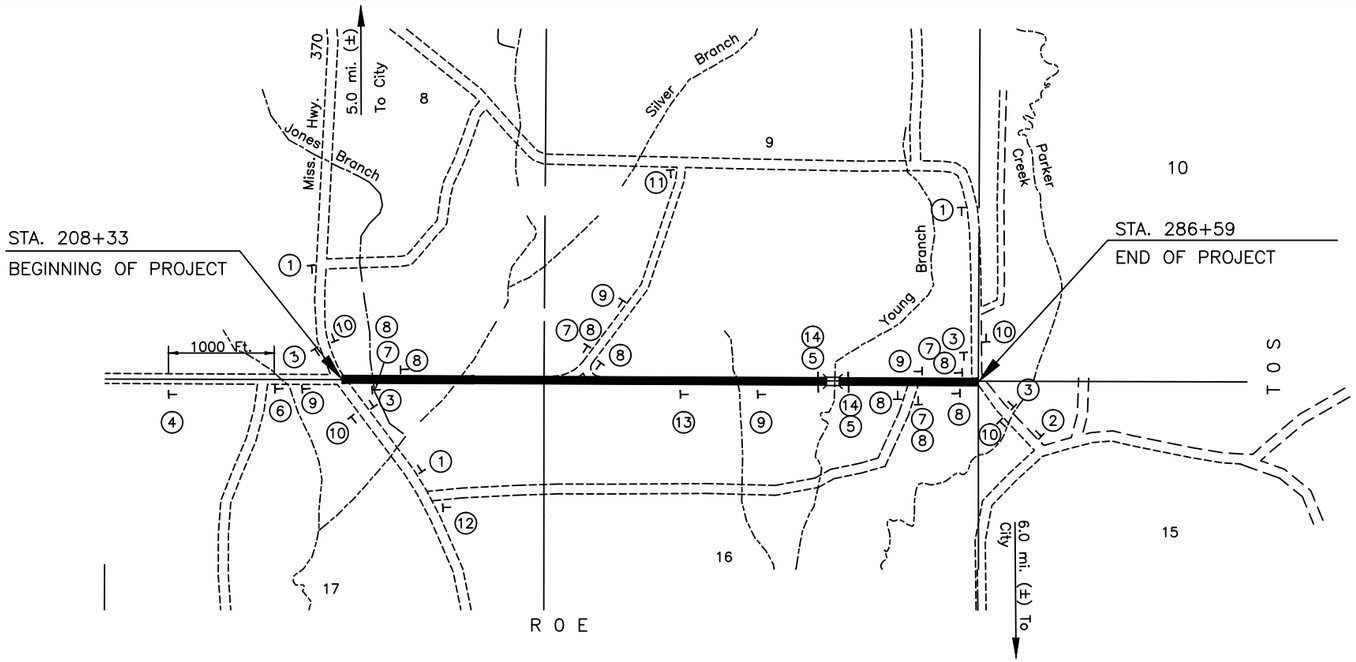
STRIPING DETAIL

N.T.S.

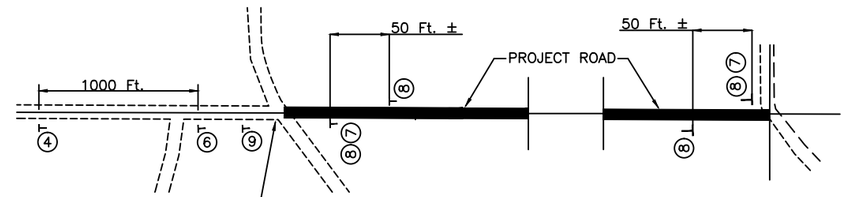
85 Percentile Speed = 55 MPH

Minimum Passing Sight Distance = 900 Ft.

Skip Yellow = 1.328 Mi.
Continuous White = 16,677 Lin. Ft.
Continuous Yellow = 4913 Lin. Ft.
Detail Traffic Stripe = 228 Lin. Ft.

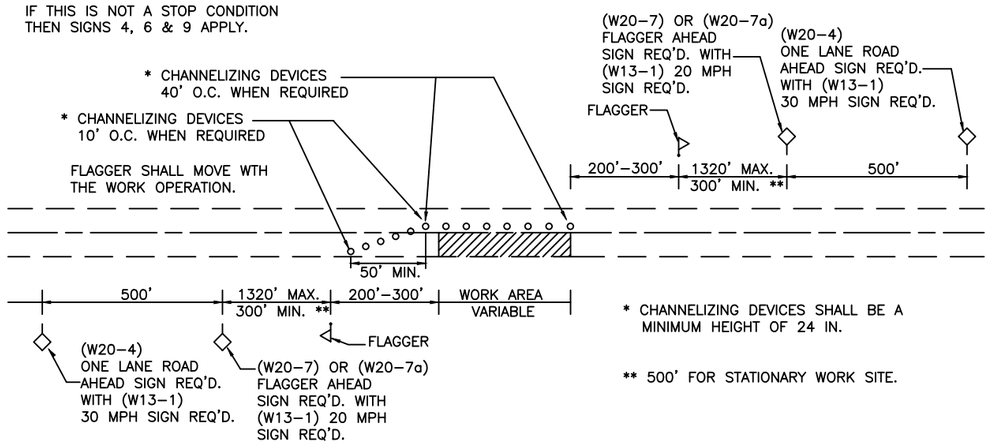


SCALE = 1" : 1650'



NOTE:
IF THIS IS A STOP CONDITION, TAKE SIGNS NO. 4 & 6 OFF.

IF THIS IS NOT A STOP CONDITION THEN SIGNS 4, 6 & 9 APPLY.



* CHANNELIZING DEVICES SHALL BE A MINIMUM HEIGHT OF 24 IN.

** 500' FOR STATIONARY WORK SITE.

ONE LANE ROAD CLOSURE WHEN REQUIRED AND AS DIRECTED BY THE ENGINEER

N.T.S.

SIGN SCHEDULE		
SIGN	DESCRIPTION	
(1)	W20-1	ROAD WORK 1500 FT.
(2)	W20-1	ROAD WORK 1000 FT.
(3)	W20-1	ROAD WORK 500 FT.
(4)	W20-3	ROAD CLOSED AHEAD
(5)	R11-2a	ROAD CLOSED
(6)	R11-3a	ROAD CLOSED 1000 FT. AHEAD
	LOCAL TRAFFIC ONLY	
(7)	R11-4	ROAD CLOSED TO THRU TRAFFIC
(8)	TYPE III	BARRICADE
(9)	W20-3	ROAD CLOSED 500 FT.
(10)	G20-2a	END ROAD WORK (Optional)
(11)	R11-3a	ROAD CLOSED 3/4 MILES AHEAD
	LOCAL TRAFFIC ONLY	
(12)	R11-3a	ROAD CLOSED 1 1/2 MILES AHEAD
	LOCAL TRAFFIC ONLY	
(13)	W20-3	ROAD CLOSED 1500 FT.
(14)	TYPE III	BARRICADE ACROSS ENTIRE ROADWAY

CONSTRUCTION NOTES:

1. AFTER ALL CONSTRUCTION IS COMPLETE, INCLUDING THE INSTALLATION OF GUARDRAILS, COMPLETE IN PLACE, BUT PRIOR TO STRIPING, THE ENTIRE PROJECT SHALL BE OPENED TO ALL TRAFFIC.

2. WHENEVER PAVEMENT CONSTRUCTION HAS PROGRESSED SUFFICIENTLY TO PERMIT TRAFFIC MOVEMENT THAT IS UNRESTRICTED BY CHANNELIZING OR OTHER TRAFFIC CONTROL METHODS, TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED PER S-619.08. THE CONTRACTOR SHALL REPLACE RAISED PAVEMENT MARKERS AS NECESSARY. IF MORE THAN ONE BITUMINOUS LIFT IS REQUIRED, THE TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED AND MAINTAINED IN A LIKE MANNER AFTER EACH LIFT. THE TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED PRIOR TO THE APPLICATION OF THE SEAL COAT. THIS WORK IS NOT A SEPARATE PAY ITEM BUT WILL BE CONSIDERED INCLUDED IN THE LUMP SUM PAYMENT FOR PAY ITEM NO. S-618-A, "MAINTENANCE OF TRAFFIC".

3. PRIOR TO OPENING THE PROJECT TO TRAFFIC, R4-1 "DO NOT PASS" OR R4-2 "PASS WITH CARE" SIGNS SHALL BE INSTALLED ON THE RIGHT HAND SIDE OF THE ROAD AT THE B.O.P. AND THE E.O.P. AND THE BEGINNING AND THE END OF THE NO-PASSING ZONES AND W14-3 SIGNS ON THE LEFT HAND SIDE OF THE ROADWAY IN ACCORDANCE WITH THE PERMANENT STRIPING SCHEDULE IN THE PLANS. THIS WORK IS NOT A SEPARATE PAY ITEM BUT WILL BE CONSIDERED INCLUDED IN THE LUMP SUM PAYMENT FOR PAY ITEM NO. S-618-A, "MAINTENANCE OF TRAFFIC".

DURING STRIPING OPERATIONS:

4. A SHADOW VEHICLE SHALL BE POSITIONED APPROXIMATELY 300 FEET IN FRONT OF AND BEHIND PAINTING OPERATIONS.

5. THE SHADOW VEHICLE SHALL CARRY A SIGN "ROADWAY STRIPING AHEAD". BOTTOM OF SIGN SHALL BE A MINIMUM OF SIX (6) FEET ABOVE PAVEMENT.

6. A FLASHING YELLOW LIGHT SHALL BE INSTALLED ABOVE TOP OF WARNING SIGNS.

7. A FLASHING YELLOW LIGHT SHALL BE INSTALLED ON ALL VEHICLES USED IN THE MARKING OPERATIONS.

GENERAL NOTES:

1. CONTRACTOR SHALL INSTALL TRAFFIC CONTROL DEVICES SUCH AS CONES, DRUMS, FLASHERS, BARRICADES, SIGNS, ETC., TO SAFELY CHANNEL OR DIRECT TRAFFIC. WHEN NECESSARY, FLAGGERS SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL DEVICES (FLAGGER AHEAD SIGN REQUIRED IN ADVANCE OF FLAGGERS EXCEPT DURING BRIEF PERIODS OR EMERGENCY SITUATIONS.)

2. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED WHENEVER NECESSARY, REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED, AND REMOVED IMMEDIATELY THEREAFTER.

3. PAY FOR INSTALLATION, MAINTENANCE AND REMOVAL OF TRAFFIC CONTROL DEVICES WILL BE MADE UNDER PAY ITEM NOS. S-618-A AND S-618-B.

4. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

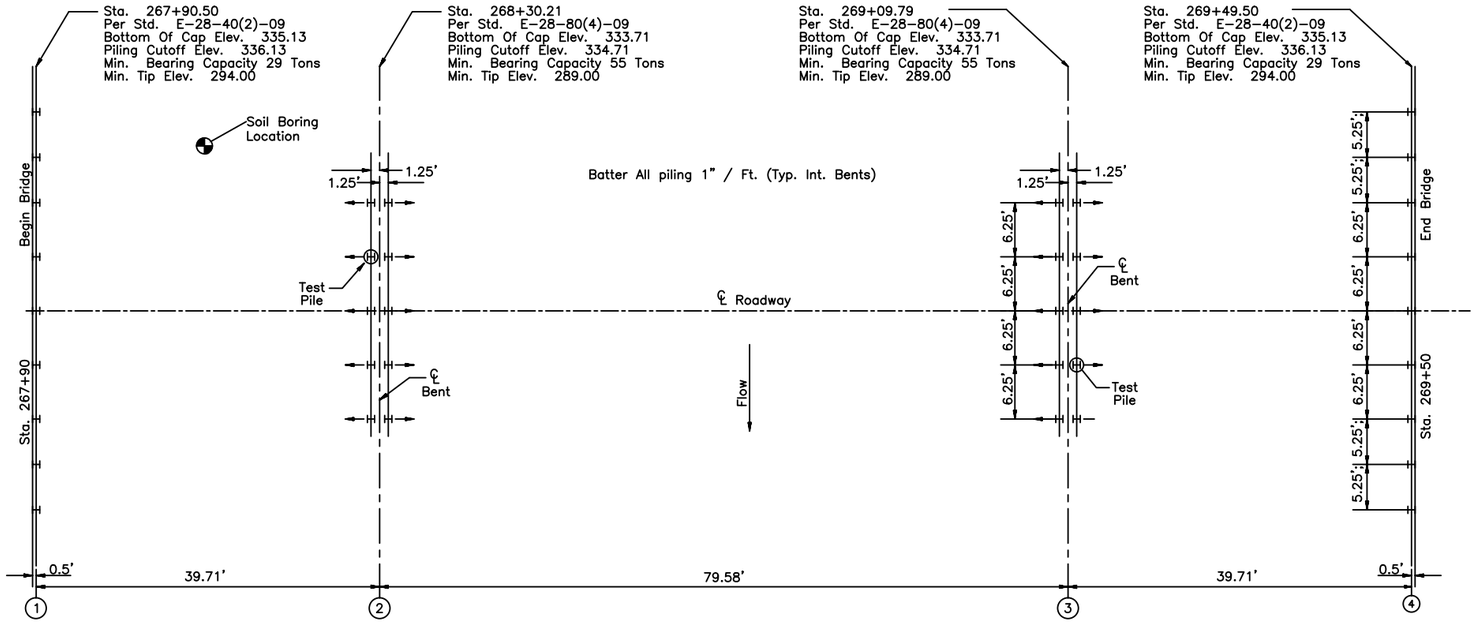
5. THESE ARE MINIMUM REQUIREMENTS AND IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO MAINTAIN TRAFFIC IN A SAFE MANNER.

6. SEE STANDARD DRAWINGS 259 AND SA-TSP-1 FOR CORRECT PLACEMENT AND INSTALLATION OF BARRICADES AND SIGNS.

7. CONTRACTOR SHALL INSTALL ADVANCE WARNING SIGNS SUCH AS WATCH FOR TRUCKS, TRUCKS TURNING, TRUCKS CROSSING, ETC., AND PLACE FLAGGERS AS DIRECTED BY THE COUNTY ENGINEER ALONG PUBLIC ROADS ON EACH SIDE OF BORROW PIT ENTRANCE OR CROSSING OF PUBLIC ROADS.

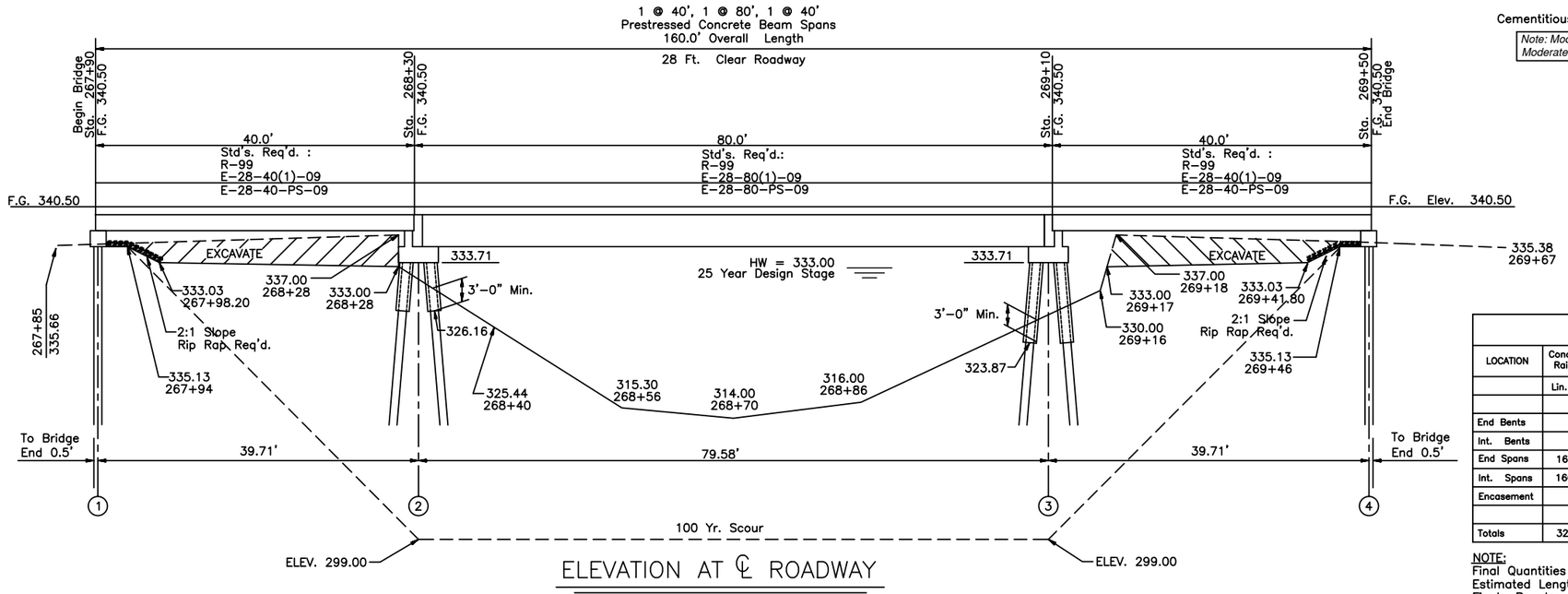
8. SEE SPECIAL PROVISION NO. 901-S-618-1 FOR ADDITIONAL CONTRACT REQUIREMENTS.

TRAFFIC CONTROL PLAN



FOUNDATION PLAN

Scale: 1/8 " = 1'
All Piling Shall Be HP 12 X 53 Steel Piling



ELEVATION AT ℄ ROADWAY

Scale: 1/8 " = 1'

DESIGN DATA

Specifications: AASHTO LRFD Bridge Design Specifications, 4th Edition, 2007 through 2009 Interims

DRAINAGE DESIGN DATA

Drainage Area	A =	22.32 Sq. Mi.
Channel Slope	S =	2.43 Ft./Mi.
Main Channel Length	L =	10.76 Mi.
Q25	=	4130 CFS
Q100	=	5422 CFS
Required Opening	=	826 Sq. Ft.
Design Opening	=	1094 Sq. Ft.

GENERAL NOTES

1. Specifications: Current Mississippi Standard Specifications For State Aid Road And Bridge Construction.
2. No Unauthorized Change Of Plans Will Be Permitted.
3. Test Piles Shall Be Driven As Permanent Piles At Locations Shown On The Pile Layout And will Be Paid For As Test Piles Only.
4. No Payment Will Be Allowed For Excavation Incidental To Construction Of End Bents Or Pile Encasements.
5. All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefore Will Be Considered Included In The Prices And Payments For Bid Items.
6. Piling Quantities Are Estimated Only And Shall Not Be Used To Estimate Length Of Test Pile.
7. Test Pile Reports To Be Submitted To The Office Of State Aid And Approved Prior To Ordering Permanent Pile Lengths.
8. All Concrete Shall Be Class "A" Concrete.
9. All Exposed Steel Piling Shall Be Concrete Encased. Encasements Shall Begin A Minimum Of Three Feet Below Finished Ground And Extend To Bottom Of Cap.
10. Surfaces Shall Be Finished in Accordance With Section S-804.03.19 Of The Specifications.
11. No Pay Item Is Provided For Foundation Excavation And Channel Excavation For Bridges.
12. Test Piles Shall Be Driven To A Minimum Bearing Of 60 Tons And A Minimum Tip Elevation of 284.00. If A Test Piling Does Not Achieve Test Pile Bearing Within Ten Feet Below Specified Test Pile Minimum Tip Elevation, The Bridge Engineer Shall Be Notified Prior To Any Further Test Piling Being Driven. After Review Of The Test Pile Report, The Bridge Engineer Will Then Determine Whether Or Not To Require A Load Test. Load Tests, When Required, Will Be Paid For As Set Forth In The Contract Documents For This Project.

Seismic Zone "1", Site Class "D".

Cementitious Material Exposure To Sulfates Is Negligible.

Note: Modify this note as required by conditions for Negligible, Moderate, or Severe Sulfates.

ESTIMATED BRIDGE QUANTITIES

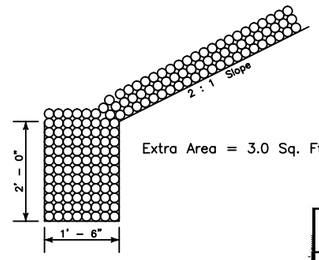
LOCATION	Concrete Railing	Class "A" Bridge Conc.	Reinforcing Steel	40' Prest. Beam	80' Prest. Beam	12" Steel Piling	Test Piles	Loose Riprap (300 Lb.)	Geotextile
	Lin. Ft.	Cu. Yd.	Lb.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Each	Tons	Sq. Yd.
End Bents		27.38	3,684			810		79	170
Int. Bents		26.88	3,694			900	2.0		
End Spans	160.0	67.10	12,708	198.75					
Int. Spans	160.0	64.75	12,489		398.75				
Encasement		10.78	174						
Totals	320.0	196.89	32,749	198.75	398.75	1,710	2.0	79	170

NOTE:
Final Quantities For Pile Encasement To Be Determined By Field Measurement.
Estimated Length For Piling Is Based On Minimum Tip Elevations.
Final Pay Length Will Be Approved By Bridge Engineer.

BRIDGE LAYOUT

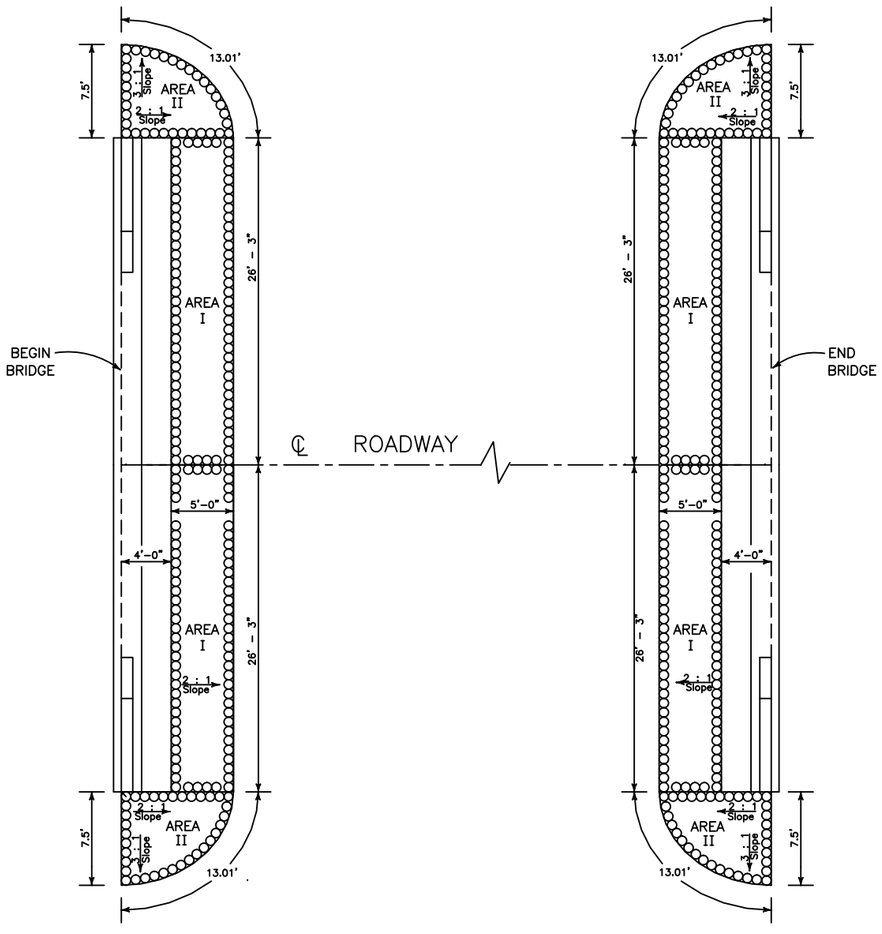
Riprap Calculations: For Information Only -- Not Required On Plans.

AREA I = 2 x 52.50' x 5' x $\sqrt{5}/2$ = 586.97 Sq. Ft.
AREA II = 4 x .7854 x 7.5 x 9 x $\sqrt{5}/2$ x $\sqrt{10}/3$ = 249.91 Sq. Ft.
Area For Toe Wall = Approx. 157.04 Ft. x 3.0 Sq. Ft. = 471.12 Sq. Ft.
Total Area = 1308.00 Sq. Ft.
Riprap = 1308.00 Sq. Ft. x 120 Lbs./Sq. Ft. ÷ 2000 Lbs./Ton = 78.48 Tons
Total Riprap = 79 Tons



Extra Area = 3.0 Sq. Ft./Lin. Ft.

RIPRAP DETAIL AT TOE OF SLOPE



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

LOG OF BORING NO.: - | PROJECT NO.: SAP 84(1)
BORING LOG DRAWING NO.: | PROFILE DRAWING NO.:
BORING TYPE: ROTARY WASH | COMPLETION DEPTH: 92 .0' | COMP. DATE: 3 -7 -01
LOGGED BY: | DEPTH TO WATER: NOT DET. | DATE: - -
SURFACE ELEVATION: 237.0 | LOCATION: STA. 268+14; 16'LT CL EXISTING ROAD

DEPTH, FT.	SAMPLES	DESCRIPTION OF MATERIAL	ZONE	BLOWS PER FT.	UNIT DRY WT. LB/CU FT	COHESION, KIP/SQ FT (1 2 3 4) PLASTIC LIMIT + / WATER CONTENT, % ● / LIQUID LIMIT + (20 40 60 80)	ELEVATION, FT.
10	T	@ 5' STIFF, BROWN, SILTY CLAY WITH SOME LIMONITE, ORGANICS, AND OCCASIONAL GRAVEL	EMB				
	I				96	●	144.4'
20	T				87	●	
	T		1		95	●	134.4'
30	T	@ 25' LOOSE, BROWNISH GRAY, INTERBEDDED CLAY AND FINE SAND					
	S			8			124.4'
	S	@ 35' MEDIUM DENSE, GRAY, VERY FINE TO FINE SAND WITH GLAUCONITE AND OCCASIONAL CLAY CLASPS		10			
40	S	@ 40' SOME FINE GRAVEL		22			114.4'
	S			29			
50	S			28			104.4'
	S			29			
60	S	@ 58' STIFF, GRAY CLAY WITH OCCASIONAL ORGANICS	2D				94.4'
	T		2A		70	●	
70	S	@ 65' DENSE, GRAY, MEDIUM TO COARSE SAND WITH SOME FINE GRAVEL, OCCASIONAL CLAY CLASPS, AND ORGANICS		42			84.4'
80	S			12			74.4'
90	S	@ 90' DENSE, GRAY, MEDIUM TO COARSE SAND WITH FINE GRAVEL	2B	30			84.4'
100							54.4'

ZONE 1 - ALLUVIUM
1 FIRM TO STIFF, BROWNISH GRAY, SILT AND SLIGHTLY CLAYEY SILT
ZONE 2 - ALLUVIUM
2A FIRM TO STIFF, DARK BROWNISH GRAY, SILTY CLAY AND CLAY; CONTAINS SOME SILT LAYERS AND STRINGERS NEAR THE TOP
2B MEDIUM DENSE TO VERY DENSE, FINE TO COARSE SAND WITH SOME FINE TO COARSE GRAVEL
2C MEDIUM DENSE, FINE TO COARSE SAND AND FINE TO COARSE GRAVEL
2D MEDIUM DENSE, BROWN, GRAYISH BROWN, SLIGHTLY SILTY, VERY FINE TO FINE SAND

REV. 3/94 S: Split Spoon, T: Shelby Tube, C: Rock Core, D: Dennison Sampler

PLATE: 16

UTILITIES OWNERS

MISSISSIPPI COUNTY POWER ASSOCIATION
City, Mississippi

BELLSOUTH TELECOMMUNICATIONS, INC.
City, Mississippi

TOWN OF FAULKNER WATER DEPARTMENT
City, Mississippi

GENERAL NOTES

Existing Utilities Conflicting With Proposed Construction To Be Adjusted By Others In Accordance With SOP No. SA II – 2 – 8

Elevations Based On MEAN SEA LEVEL Datum (NGVD 83).

Reference B.M. U.S.G.S. B.M. H–36, Elev. 337.68 Ft. Brass Disk Located In The East Wall Of Courthouse In county Seat, Mississippi

Drainage areas Taken From USGS Topographic Maps.
Disturbed Area = 14.4 Acres

HYDRAULIC DESIGN

≤ 64 Acres – Rational Method
> 64 Acres – "Flood Characteristics Of Mississippi Streams" 1991.

SHRINKAGE FACTOR

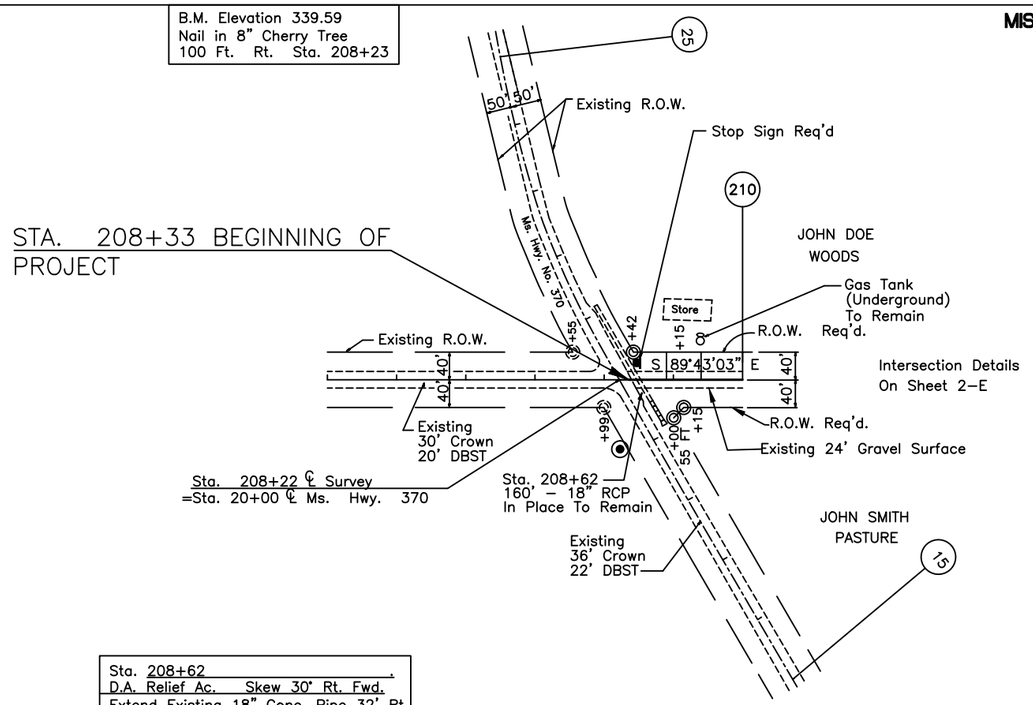
Unclassified Excavation	= 1.35
Granular Material (Cl. 4, Gp. "B") (LVM)	= 1.50
Granular Material (Cl. 9, Gp. "B") (LVM)	= 1.50

INSERT YOUR OWN SHRINKAGE FACTORS.

DESIGN DATA

Design Speed	= 40 MPH
Current ADT (2007 Est.)	= 110

B.M. Elevation 339.59
Nail in 8" Cherry Tree
100 Ft. Rt. Sta. 208+23

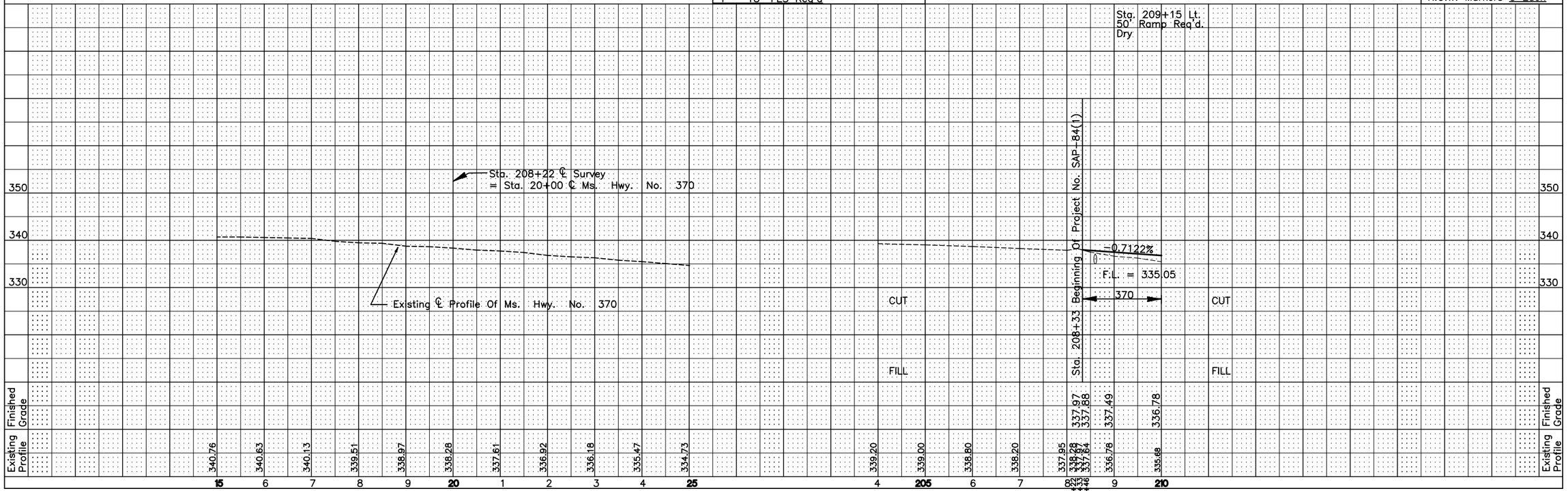


Sta. 208+62
D.A. Relief Ac. Skew 30° Rt. Fwd.
Extend Existing 18" Conc. Pipe 32' Rt
32' – 18" RCP Culvert Req'd
1 – 18" FES Req'd

SHEET TOTALS

Excavation	370 Cu. Yd.
Riprap	0 Tons
R.O.W. Markers	3 Each

Sta. 209+15 Lt.
50' Ramp Req'd.
Dry



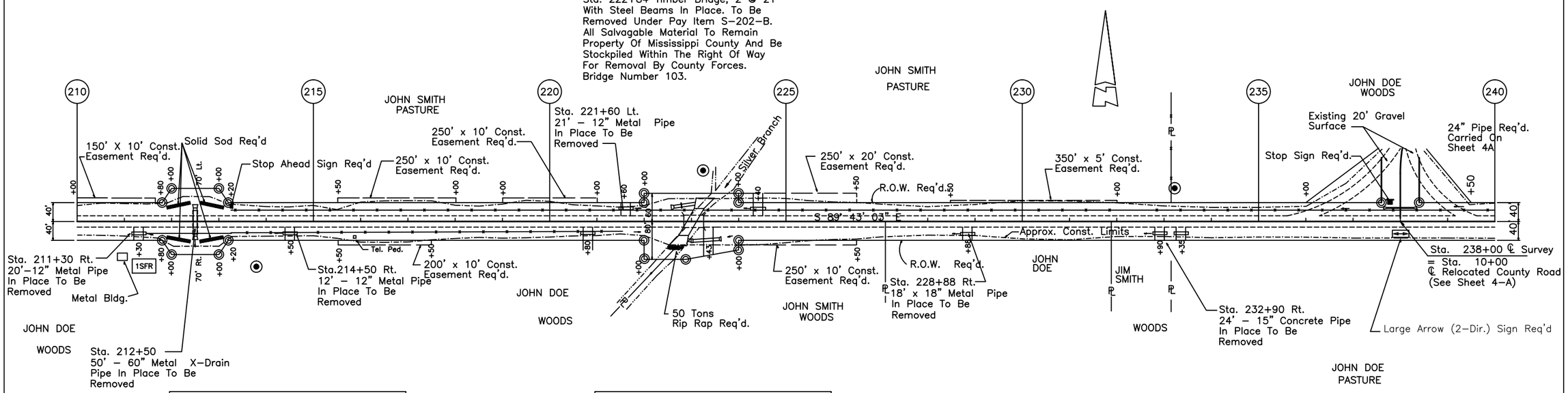
MISSISSIPPI COUNTY SHEET NO. 4

B.M. Elev. 328.21
Nail In 8" Sycamore
100 Ft.Rt. Sta. 213+80

B.M. Elev. 332.04
Nail in 30" Water Oak
100 Ft. Lt. Sta. 223+25

B.M. Elev. 341.08
Nail in 6" Red Oak
60 Ft.Lt. Sta. 233+20

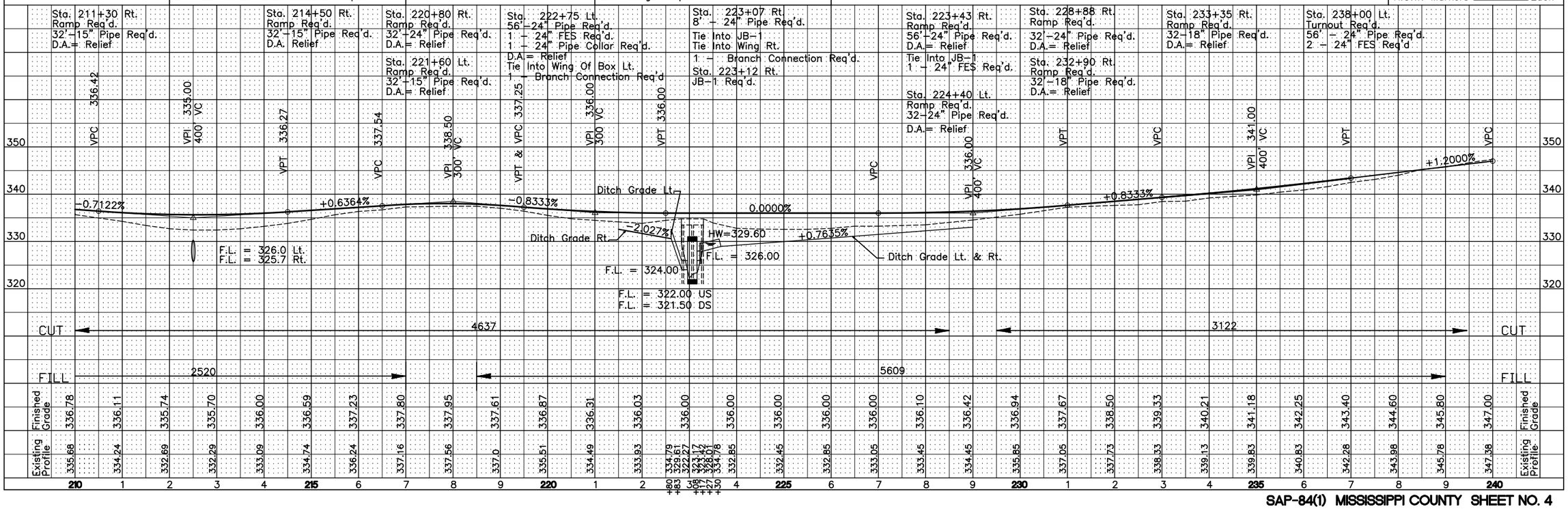
Sta. 222+84 Timber Bridge, 2 @ 21' With Steel Beams In Place. To Be Removed Under Pay Item S-202-B. All Salvagable Material To Remain Property Of Mississippi County And Be Stockpiled Within The Right Of Way For Removal By County Forces. Bridge Number 103.

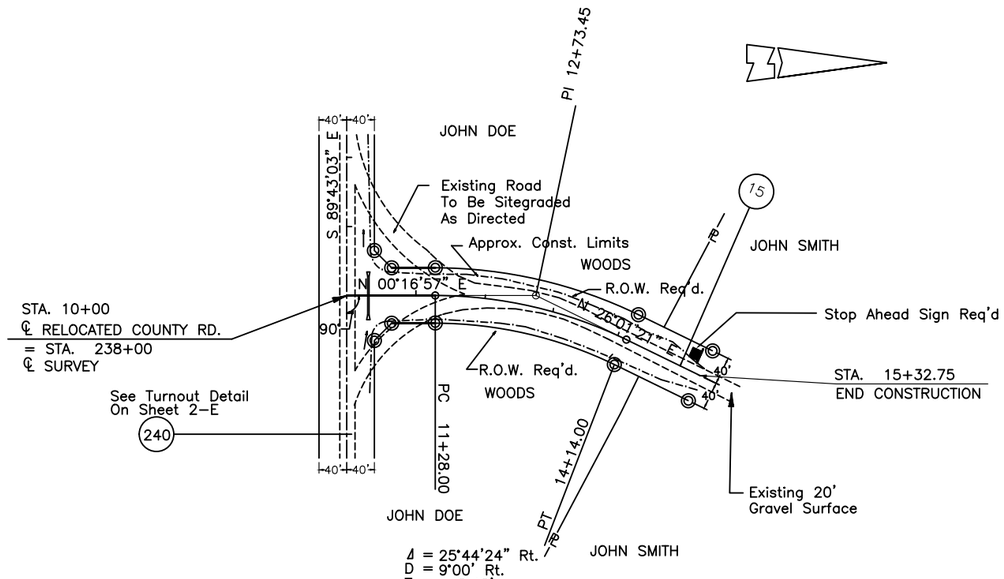


Sta. 212+50
D.A. 252 Ac. Skew None
56' - 88" X 54" Arch Pipe Req'd.
2 - 88" X 54" End Sections Req'd.

Sta. 223+09
D.A. 1336 Ac. Skew 30° Lt.Fwd.
65' - 16' X 8' Box Culvert Req'd.
3:1 Wings Req'd.

SHEET TOTALS
Excavation 7759.0 Cu.Yd.
Riprap 50.0 Ton
R.O.W. Markers 18 Each





See Sheet 2-A
For Typical Section

TYPICAL SECTION MAY BE SHOWN HERE OR SHOWN ON A SEPARATE SHEET FOLLOWING THE MAINLINE TYPICAL SECTION. IF THE MAINLINE AND THE RELOCATED ROAD(S) ARE THE SAME, THEN SHOW THE LIMITS ON THE MAINLINE TYPICAL SECTION.

Design Speed = 30 mph

Current ADT (2007 est) = 70

Sta. 10+30 (= Sta. 238+00 LT)

D.A. Relief Ac. Skew None

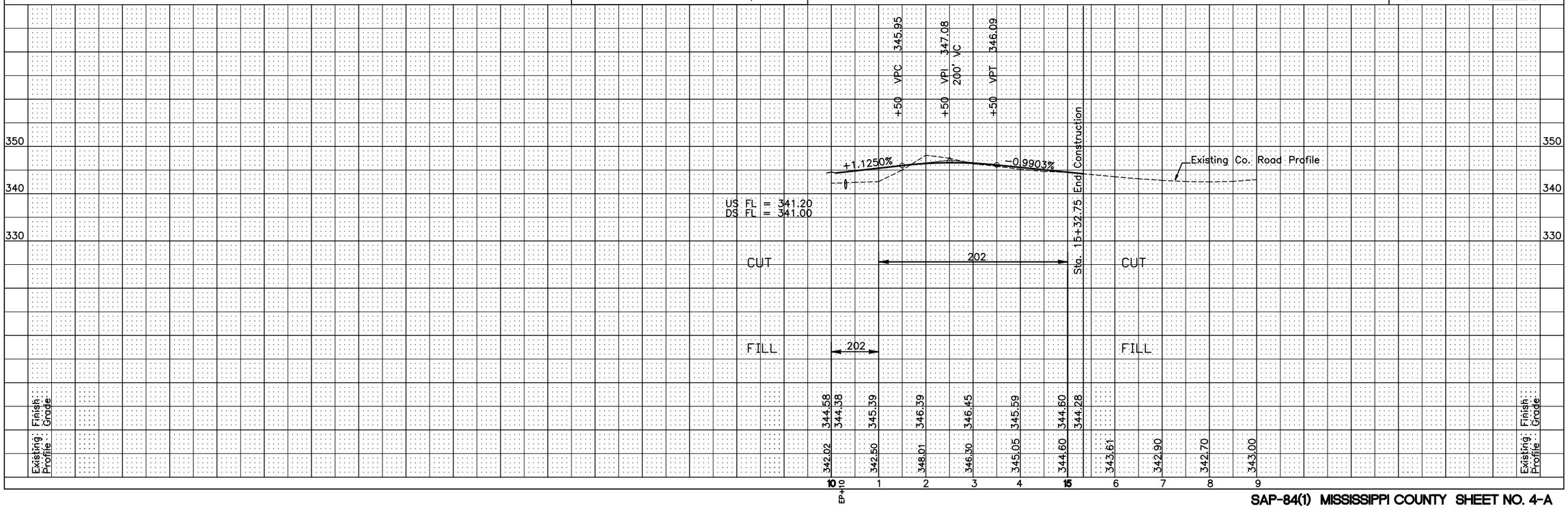
56' – 24" Pipe Req'd.

2 – 24" FL. End Sections Req'd.

Δ = 25°44'24" Rt.
D = 9°00' Rt.
T = 145.45'
L = 286.00'
E = 16.41'
R = 636.62'
SE = 6.4%
EW = 3.0
Extra Area = 122.93 Sq. Yds.

SHEET TOTAL

Excavation	202.0 Cu.Yd.
Riprap	0.0 Ton
R.O.W. Markers	8 Each



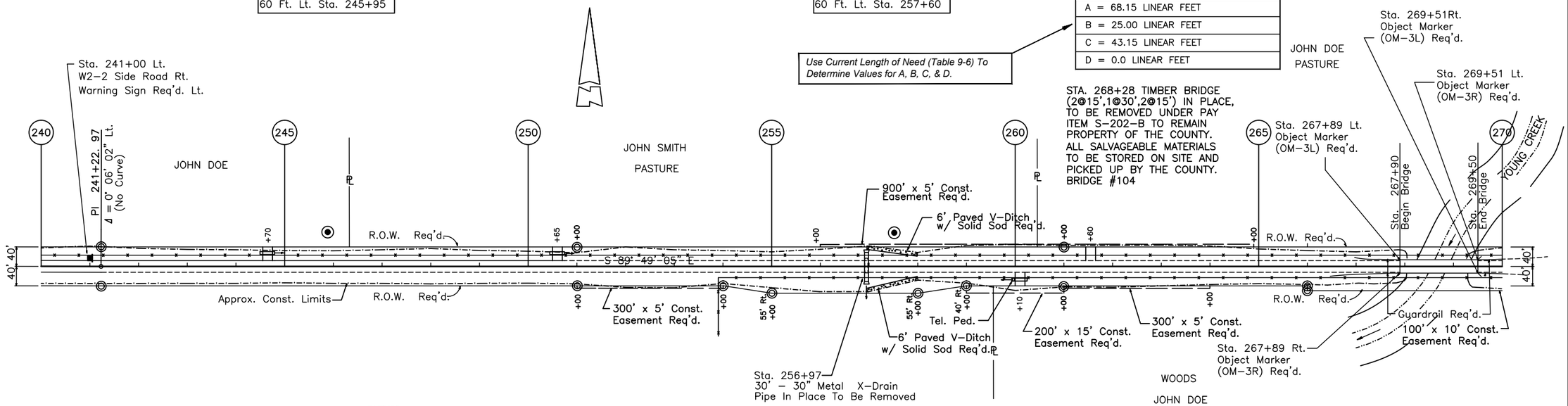
MISSISSIPPI COUNTY SHEET NO. 5

B.M. Elev. 347.64
Nail In 8" Post Oak
60 Ft. Lt. Sta. 245+95

B.M. Elev. 340.32
Nail In 6" Cedar
60 Ft. Lt. Sta. 257+60

APPROACH GUARDRAIL LENGTHS FOR VALUES "A", "B", "C" AND "D" ON STANDARD 195
A = 68.15 LINEAR FEET
B = 25.00 LINEAR FEET
C = 43.15 LINEAR FEET
D = 0.0 LINEAR FEET

Use Current Length of Need (Table 9-6) To Determine Values for A, B, C, & D.

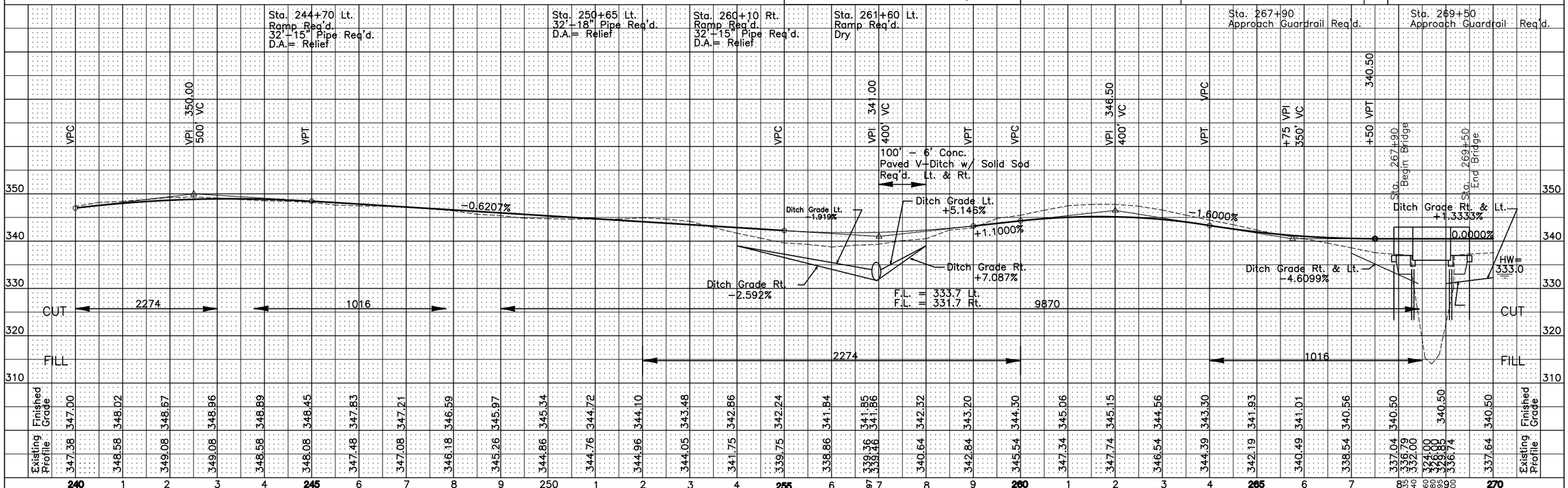


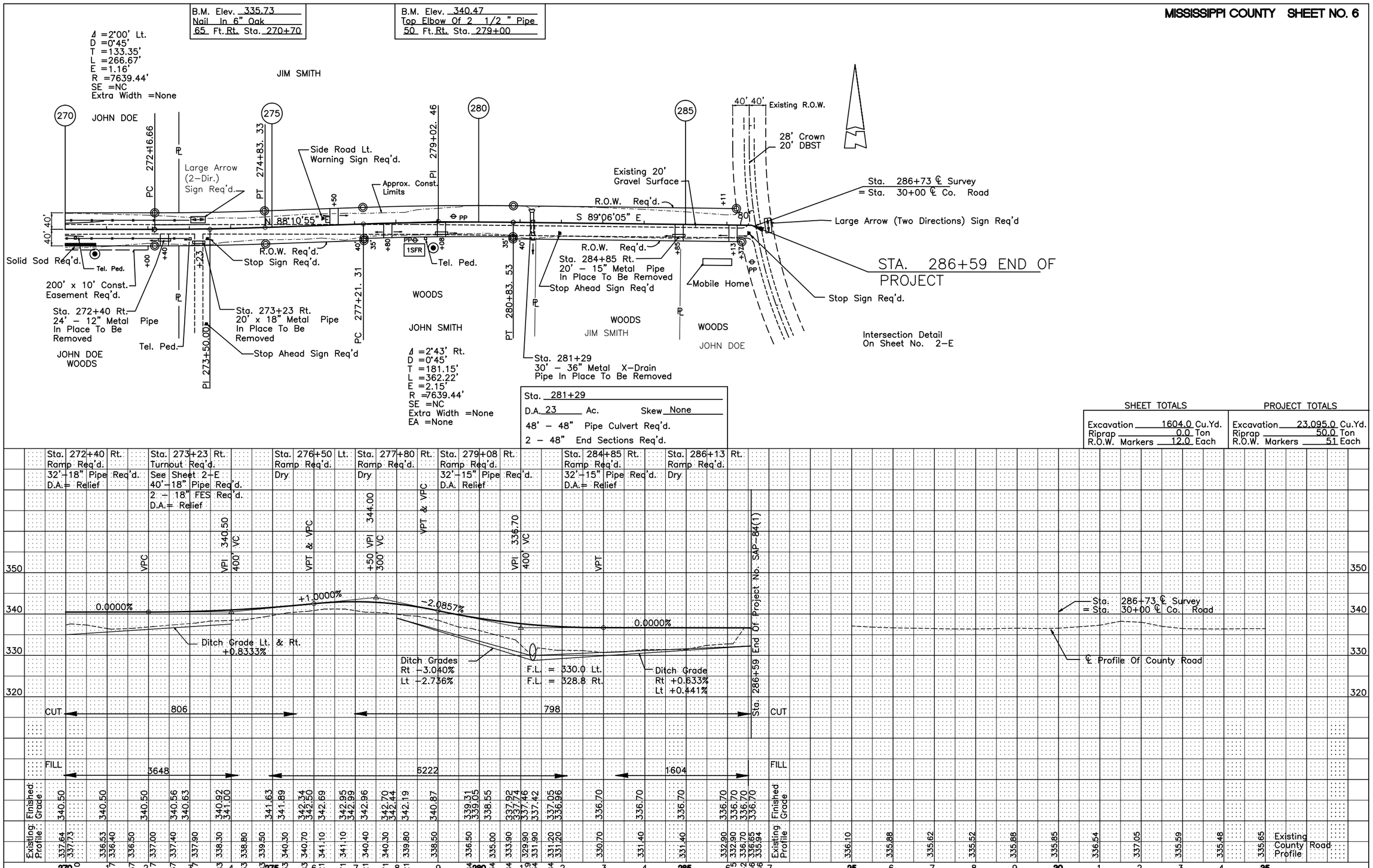
Sta. 256+97
D.A. 78 Ac. Skew None
56' - 73" X 45" Arch Pipe Req'd.
2 - 73" X 45" End Sections Req'd.

Sta. 267+90
Bridge Req'd.
D.A. = 42.8 Sq. Mi.
1 @ 40', 1 @ 80', 1 @ 40'
Prestressed Conc. Spans
28' Clear Roadway

SHEET TOTALS

Excavation	13,160.0 Cu.Yd.
Riprap	0.0 Ton
R.O.W. Markers	10 Each




B.M. Elev. 335.73
Nail In 6" Oak
65 Ft. Rt. Sta. 270+70
B.M. Elev. 340.47
Top Elbow Of 2 1/2 " Pipe
50 Ft. Rt. Sta. 279+00
Δ =2°00' Lt.
D =0°45'
T =133.35'
L =266.67'
E =1.16'
R =7639.44'
SE =NC
Extra Width =None
JIM SMITH
JOHN DOE
270
275
280
285
PC 272+16.66
PT 274+83.33
PI 279+02.46
PI 273+50.00
PC 277+21.31
PT 280+83.53
40' 40' Existing R.O.W.
28' Crown
20' DBST
Existing 20'
Gravel Surface
Side Road Lt.
Warning Sign Req'd.
Large Arrow
(2-Dir.)
Sign Req'd.
Approx. Const.
Limits
R.O.W. Req'd.
N 88°10'55" E
S 89°06'05" E
Sta. 286+73 ℄ Survey
= Sta. 30+00 ℄ Co. Road
Large Arrow (Two Directions) Sign Req'd
STA. 286+59 END OF PROJECT
Solid Sod Req'd.
Tel. Ped.
200' x 10' Const.
Easement Req'd.
Sta. 272+40 Rt.
24' – 12" Metal Pipe
In Place To Be
Removed
JOHN DOE
WOODS
Tel. Ped.
R.O.W. Req'd.
Stop Sign Req'd.
Sta. 273+23 Rt.
20' x 18" Metal Pipe
In Place To Be
Removed
Stop Ahead Sign Req'd
WOODS
JOHN SMITH
1SFR
Tel. Ped.
Sta. 284+85 Rt.
20' – 15" Metal Pipe
In Place To Be Removed
Stop Ahead Sign Req'd
Mobile Home
WOODS
JIM SMITH
WOODS
JOHN DOE
Stop Sign Req'd.
Intersection Detail
On Sheet No. 2-E
Sta. 281+29
30' – 36" Metal X-Drain
Pipe In Place To Be Removed
Δ =2°43' Rt.
D =0°45'
T =181.15'
L =362.22'
E =2.15'
R =7639.44'
SE =NC
Extra Width =None
EA =None
Sta. 281+29
D.A. 23 Ac. Skew None
48' – 48" Pipe Culvert Req'd.
2 – 48" End Sections Req'd.
SHEET TOTALS
Excavation 1604.0 Cu.Yd.
Riprap 0.0 Ton
R.O.W. Markers 12.0 Each
PROJECT TOTALS
Excavation 23,095.0 Cu.Yd.
Riprap 50.0 Ton
R.O.W. Markers 51 Each
Sta. 272+40 Rt.
Ramp Req'd.
32'–18" Pipe Req'd.
D.A.= Relief
Sta. 273+23 Rt.
Turnout Req'd.
See Sheet 2-E
40'–18" Pipe Req'd.
2 – 18" FES Req'd.
D.A.= Relief
Sta. 276+50 Lt.
Ramp Req'd.
Dry
Sta. 277+80 Rt.
Ramp Req'd.
Dry
Sta. 279+08 Rt.
Ramp Req'd.
32'–15" Pipe Req'd.
D.A. Relief
Sta. 284+85 Rt.
Ramp Req'd.
32'–15" Pipe Req'd.
D.A.= Relief
Sta. 286+13 Rt.
Ramp Req'd.
Dry
VPC
VPI 340.50
400' VC
VPT & VPC
VPI 344.00
300' VC
VPT & VPC
VPI 336.70
400' VC
VPT
0.0000%
+1.0000%
-2.0857%
0.0000%
+0.8333%
Ditch Grade Lt. & Rt.
Ditch Grades
Rt -3.040%
Lt -2.736%
F.L. = 330.0 Lt.
F.L. = 328.8 Rt.
Ditch Grade
Rt +0.633%
Lt +0.441%
End Of Project No. SAP-84(1)
Sta. 286+59
Sta. 286+73 ℄ Survey
= Sta. 30+00 ℄ Co. Road
℄ Profile Of County Road
CUT 806
798
CUT
FILL 3648
6222
1604
FILL
Finished Grade
Existing Profile
Existing County Road Profile
340.50 340.50 340.50 340.56 340.63 340.92 341.00 341.63 341.89 342.34 342.50 342.69 342.95 342.99 342.96 342.70 342.44 342.19 340.87 339.31 339.05 338.55 337.92 337.74 337.46 337.42 337.05 336.96 336.70 336.70 336.70 336.70 336.70 336.70 336.70
337.64 337.73 336.53 336.40 336.50 337.00 337.40 337.90 338.30 338.80 339.50 340.30 340.70 341.10 341.10 340.40 340.30 339.80 338.50 336.50 335.00 333.90 329.90 331.90 331.20 331.20 330.70 331.40 331.40 332.90 332.90 336.70 336.85 335.94 336.10 335.88 335.62 335.52 335.88 335.85 336.54 337.05 335.59 335.48 335.65
270 +10 +17 +67 2 +17 +67 +17 +83 4 +33 +83 275 +33 +83 6 +21 +71 7 7 +21 +71 8 +21 9 +84 280 +34 +84 +29 +34 +84 2 3 4 285 +15 +42 +56 +66 7 25 6 7 8 9 30 1 2 3 4 35